

FINAL EXAMINATIONS

- Model Examinations of the School Book
(2 models + model for the special needs students).
- 25 Schools' Examinations from Different Governorates 2020



تفوقك في أي مذكرة عليها العلامة دي
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هذا العمل حصري على موقع ذاكرولى التعليمي ولا يسمح بنشره في أي مواقع أخرى
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Model Examinations of the School Book

Model 1

Answer the following questions :

1 Choose the correct answer :

(1) The triangle whose measures of its angles are 50° , 90° and 40° is (a acute-angled triangle **or** an obtuse-angled triangle **or** a right-angled triangle **or** otherwise)

(2) $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots\dots\dots$ (1 **or** 10 **or** 11 **or** 111)

(3) If $\{7, 10\} \subset \{10, x + 4\}$, then $x = \dots\dots\dots$ (3 **or** 4 **or** 5 **or** 6)

(4) $3.75 \times 1000 = \dots\dots\dots$ (0.375 **or** 0.0375 **or** 3750 **or** 37.5)

(5) $\frac{1}{2} \square \frac{1}{3}$ (< **or** > **or** = **or** \leq)

(6)  The shaded part is
($X \cap Y$ **or** $X \cup Y$ **or** $X - Y$ **or** $X \subset Y$)

(7) $55.241 \times 100 \square 522.41 \times 10$ (< **or** > **or** = **or** \leq)

(8) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 **or** 2 **or** 3 **or** $\frac{3}{2}$)

(9) 43 day \approx (to the nearest week) (4 **or** 6 **or** 5 **or** 7)

(10) Any chord passing through the centre of a circle is called
(a diameter **or** a radius **or** a side **or** otherwise)

(11) $\{52\} \dots\dots\dots \{5, 2\}$ (\in **or** \notin **or** \subset **or** $\not\subset$)

(12) $12.3 \times \dots\dots\dots = 1230$ (10 **or** 100 **or** 1000 **or** 10000)

(13) $Y = \{2, 4, 6\} \cap \{1, 2, 3\}$, then 6 Y
(\in **or** \notin **or** \subset **or** $\not\subset$)

(14) $\frac{5}{8} \square 0.5734$ (< **or** > **or** = **or** \leq)

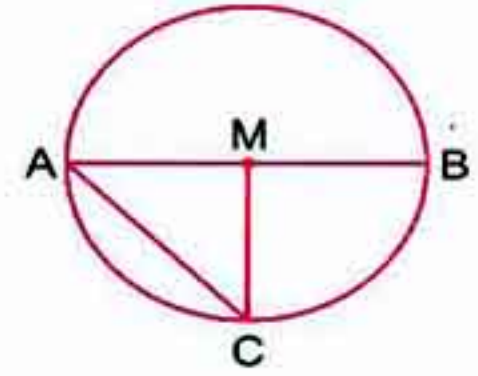


2 Complete each of the following :

(15) In the opposite figure :

[a] $MA = \dots\dots\dots = \dots\dots\dots$

[b] The longest chord in the circle is $\dots\dots\dots$



(16) $\frac{4}{12} \div \frac{6}{12} = \dots\dots\dots$

(17) The probability of the sure event = $\dots\dots\dots$

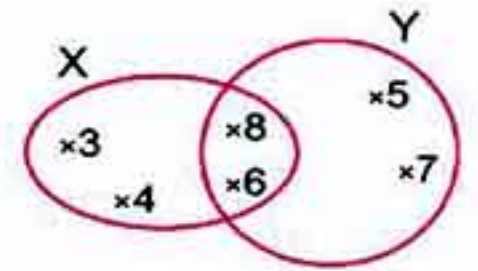
(18) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$

(19) 2.4 decimetre = $\dots\dots\dots$ cm.

(20) $X \cap Y = \dots\dots\dots$

(21) $65.384 - \dots\dots\dots = 65$

(22) $\frac{3}{25} \div \dots\dots\dots = \frac{25}{3}$



3 Answer the following :

(23) Draw the triangle ABC where
AB = 4 cm. , BC = 6 cm. and CA = 8 cm.
, then draw a circle its centre is B and its radius length is 4 cm.

(24) From the table , find the probability that a pupil plays basketball :

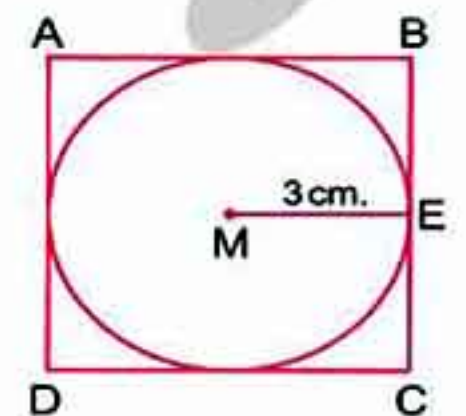
Game	Football	Basketball	Handball
Number of pupils	50	40	10

(25) Arrange in a descending order :

$5\frac{1}{2}$, $6\frac{1}{4}$, $5\frac{3}{4}$ and $5\frac{2}{5}$

(26) In the opposite figure :

If ME = 3 cm. ,
then calculate the perimeter
of the square.



Model 2

Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. = m. (3.36 or 33.6 or 336 or 3360)

(2) $9 \frac{3}{25} \approx$ (to the nearest tenth)
(0.9 or 9.2 or 9.1 or 9)

(3) $\frac{5}{6} \div 1 \frac{1}{6} =$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

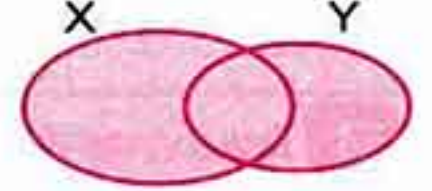
(4) 0.312×100 $312 \div 100$ (> or < or = or \leq)

(5) The smallest number from the following is
(0.111 or 0.12 or 0.123 or 1.023)

(6) 10×4.72 100×0.472 (< or > or = or otherwise)

(7) $\frac{3}{5} \times 1.6 > 1.6 \times$ (0.6 or 1.6 or $\frac{5}{3}$ or 0.3)

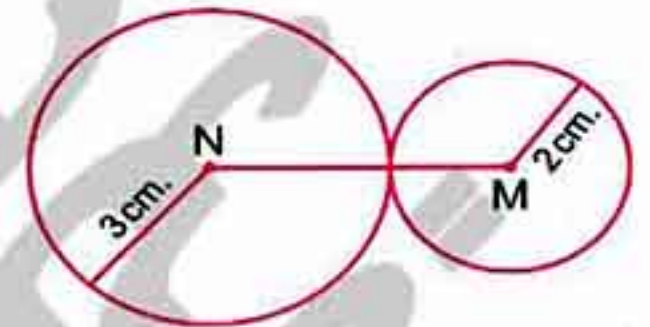
(8) The shaded part represents
($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)



(9) If $Y = \{2, 3, 5\} \cap \{1, 3, 5\}$, then $\{1, 2, 3, 5\}$ Y
(\subset or $\not\subset$ or \in or \notin)

(10) In the opposite figure :

MN = cm.



(2 or 3 or 6 or 5)

(11) The length of the diameter of any circle the length of any chord in it does not passing through the centre

(> or < or = or \leq)

(12) In any triangle the number of its heights =

(1 or 2 or 3 or 4)

(13) In a class there are 40 pupils , 25 of them are boys , the rest are girls , then the probability of the chosen pupil is a girl =

($\frac{3}{8}$ or $\frac{5}{8}$ or $\frac{3}{5}$ or 1)

- (14) When tossing a coin once , then the probability of appearing a tail = (0 or 1 or $\frac{1}{2}$ or 2)

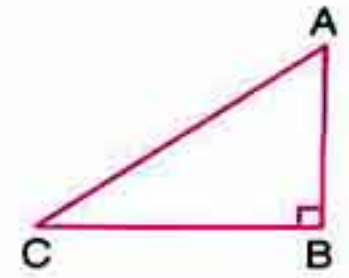
2 Complete each of the following :

- (15) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail =

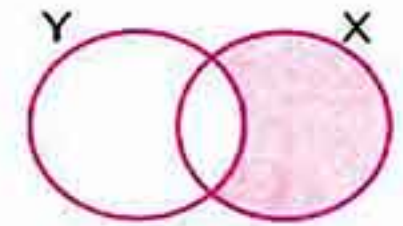
- (16) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

- (17) In the opposite figure :

The corresponding height of the base \overline{BC} is



- (18) The shaded part represents



- (19) A circle its radius length = 1 cm. , then its diameter length = cm.

- (20) $4.6798 \approx \dots\dots\dots$ (to the nearest thousandth)

- (21) $2\frac{1}{4} \times \dots\dots\dots = 1$

- (22) $3978 \div \dots\dots\dots = 3.978$

3 Answer the following :

- (23) If $U = \{x : x \text{ is an odd number } < 15\}$, $X = \{1, 3\}$ and $Y = \{1, 5, 9, 13\}$, draw a Venn diagram that represents the sets U , X and Y , then find $X \cap Y$

- (24) Draw a circle M of radius length 2.5 cm. , then draw the diameter \overline{AB} and the chord \overline{AC} of length 3 cm. Join \overline{BC} , then measure its length

- (25) A box contains identical balls where 5 balls are white , 9 red and 6 black. If one ball is chosen randomly , what is the probability that the chosen ball is white ?
-

- (26) A rectangle , its length is 4.1 cm. and its width is 3.5 cm. , calculate its area.
-



Model examination for the special needs students

Answer the following questions :

1 Choose the correct answer :

(1) $\frac{1}{3} \times \frac{3}{4} = \dots\dots\dots$

($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$)

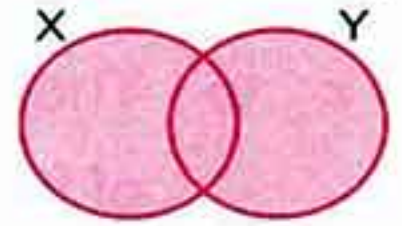
(2) If $3 \in \{x, 5\}$, then $x = \dots\dots\dots$

(5 or 3 or 8)

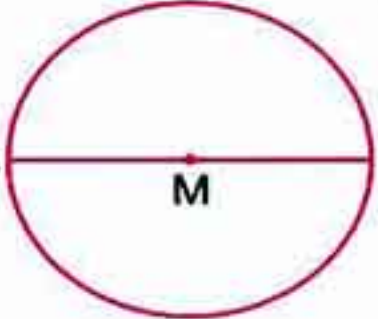
(3) $312 \div 10 = \dots\dots\dots$

(3.12 or 0.312 or 31.2)

(4) The shaded part
is



($X \cup Y$ or $X \cap Y$ or $X - Y$)

(5) A  B \overline{AB} is called a

(diameter or radius or side)

(6) $14.4 \times 10 \square 144$

($>$ or $<$ or $=$)

(7) In any triangle , there are heights.

(1 or 2 or 3)

(8) $\{5\} \dots\dots\dots \{5, 8\}$

(\subset or \notin or $\not\subset$)

(9) When tossing a coin once , the probability of appearing a tail =

(1 or $\frac{1}{2}$ or $\frac{1}{4}$)

(10) $\frac{1}{2} = \dots\dots\dots$

(5 or 0.5 or 0.05)

2 Use the following answers to complete the questions below :

($\frac{1}{6}$, 12.1 , 2 , 4.9 , $\{1, 5\}$)

(1) $4.85 \approx \dots\dots\dots$ (to the nearest tenth)

(2) When tossing a die once , the probability of appearing the
number 3 =


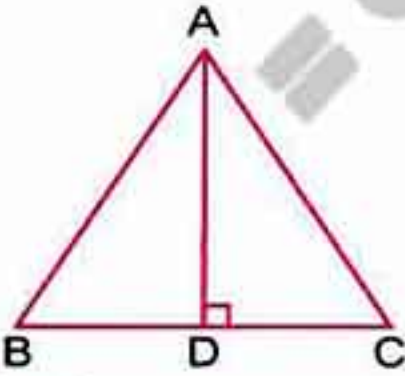
(3) $48.4 \div 4 = \dots\dots\dots$

(4) A circle of diameter length = 4 cm. , then its radius length = cm.

(5) If $X = \{1, 2, 5, 7\}$, $Y = \{1, 5, 3\}$, then $X \cap Y = \dots\dots\dots$



3 Match :

A	
(1)	 <p>The shaded part is</p>
(2)	$\frac{1}{2} \square \frac{1}{3}$
(3)	$4 \frac{25}{100} \approx \dots\dots\dots$ (to the nearest tenth)
(4)	The probability that Samir win a match is $\frac{1}{2}$, then the probability of loss =
(5)	 <p>\overline{AD} is called</p>

B
$>$
$\frac{1}{2}$
$X \cap Y$
altitude
4.3

Some Schools' Examinations From Different Governorates

1 Cairo Governorate

East Nahr City Educational Zone
Manaret Heliopolis School

Answer the following questions :

1 Choose the correct answer :

- (1) $4.25 \times 100 = \dots\dots\dots$ (425 or 42.5 or 42500 or 4250)
- (2) If $4 \in \{2, x, 5\}$, then $x = \dots\dots\dots$ (2 or 4 or 5 or 6)
- (3) The number of altitudes in the right-angled triangle is $\dots\dots\dots$ (1 or 2 or 3 or 4)
- (4) The number $83.7694 \approx 83.77$ to the nearest $\dots\dots\dots$ (0.1 or 0.01 or 0.001 or 0.0001)
- (5) If $\{7, 10\} \subset \{10, x + 4\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 6)
- (6) $\frac{5}{6} \div 1 \frac{1}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)
- (7) $\frac{1}{2} \square \frac{1}{3}$ (< or > or = or otherwise)
- (8) The reciprocal of $3 \frac{1}{2}$ $\dots\dots\dots$ ($\frac{7}{2}$ or $\frac{2}{7}$ or $3 \frac{2}{1}$ or 8)
- (9) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or U or \emptyset)
- (10) $7 \dots\dots\dots \{77, 17\}$ (\in or \notin or \subset or $\not\subset$)
- (11) $\emptyset \dots\dots\dots \{A, B\}$ (\in or \notin or \subset or $\not\subset$)
- (12) The longest chord in the circle is called a $\dots\dots\dots$
(diameter or chord or radius or centre)
- (13) $\frac{2}{3}$ of $\frac{9}{10} = \dots\dots\dots$ ($\frac{2}{3}$ or $\frac{3}{5}$ or $\frac{3}{8}$ or $\frac{9}{3}$)
- (14) The smallest prime number is $\dots\dots\dots$ (1 or 2 or 3 or 0)

2 Complete :

- (15) $71.5 \div \dots\dots\dots = 7.15$
- (16) $76.759 + 59.695 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest $\frac{1}{10}$)
- (17) If $\{3, 4\} \subset \{2, 3, a - 1\}$, then $a = \dots\dots\dots$
- (18) The point of intersection of the three altitudes of the obtuse-angled triangle lies $\dots\dots\dots$ the triangle.



(19) If $\frac{3}{8} = \frac{a}{24}$, then $a = \dots\dots\dots$

(20) The line that joins between the centre of the circle and any point on the circle is called $\dots\dots\dots$

(21) The probability of the impossible event is $\dots\dots\dots$

(22) 3 days = $\dots\dots\dots$ hours.

3 Answer the following :

(23) A box contains 5 red balls , 8 black balls and 7 white balls , one of them is drawn randomly , find the probability of drawing a ball which is :

[a] Black = $\dots\dots\dots$

[b] Green = $\dots\dots\dots$

[c] Red or black = $\dots\dots\dots$

[d] Not red = $\dots\dots\dots$

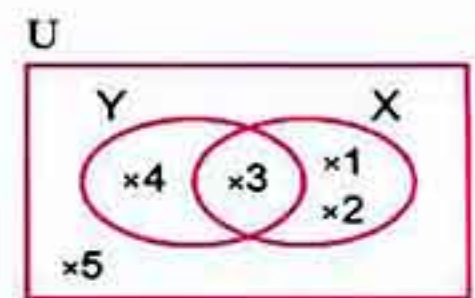
(24) From the opposite Venn diagram , find :

[a] $X \cap Y = \dots\dots\dots$

[b] $X \cup Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[d] $\bar{Y} = \dots\dots\dots$



(25) Find :

[a] $6188 \div 221 = \dots\dots\dots$

[b] $2.1 \times 0.34 = \dots\dots\dots$

(26) Draw the triangle ABC in which
AB = 7 cm. and BC = AC = 6 cm.
, then draw $\overline{CD} \perp \overline{AB}$
, then find its length.

2 Cairo Governorate

Rod El-Farag Educational Zone
St. Mary's School



Answer the following questions :

1 Choose the correct answer :

(1) If $6 \in \{3, 5, 2x\}$, then $x = \dots\dots\dots$

(2 or 3 or 4 or 5)

(2) $\{7, 8\} \dots\dots\dots \{5, 7, 10\}$

(\in or \subset or \notin or $\not\subset$)

(3) In any triangle , the number of its heights = $\dots\dots\dots$

(1 or 2 or 3 or 4)



(4) Any chord passing through the centre of a circle is called

(a diameter **or** a radius **or** a chord **or** otherwise)

(5) $\{52\}$ $\{5, 2\}$

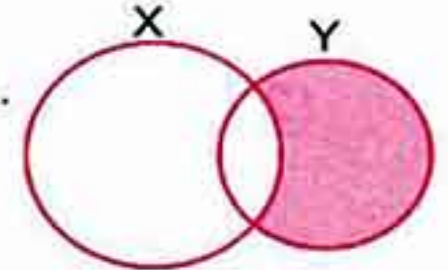
(\in **or** \subset **or** \notin **or** $\not\subset$)

(6) $2\frac{1}{3} \div \frac{5}{3} =$

($\frac{7}{5}$ **or** $\frac{5}{7}$ **or** $\frac{3}{7}$ **or** $\frac{5}{2}$)

(7) $9\frac{3}{25} \approx$ (to the nearest tenth) (0.9 **or** 9.2 **or** 9.11 **or** 9.1)

(8) The shaded part in the opposite figure represents



($X - Y$ **or** $Y - X$ **or** $X \cup Y$ **or** $X \cap Y$)

(9) $4\frac{1}{8} \times 2\frac{2}{3} =$

(1 **or** 10 **or** 11 **or** 111)

(10) $\frac{5}{8}$ 0.5734

($>$ **or** $=$ **or** $<$ **or** \leq)

(11) 55.241×100 552.41×10

($>$ **or** $=$ **or** $<$ **or** otherwise)

(12) $(2\frac{1}{2} + 7\frac{1}{2}) \div \frac{1}{5} =$

(2 **or** 5 **or** 10 **or** 50)

2 Complete the following :

(13) If $X \subset Y$, then $X \cap Y =$

(14) $\{2, 3, 5\} \cap \{1, 3, 5\} =$

(15) $397.8 \div 23.4 =$

(16) $\frac{3}{25} \div 0.012 =$

(17) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail is

(18) The altitudes in obtuse-angled triangle intersect at the point that

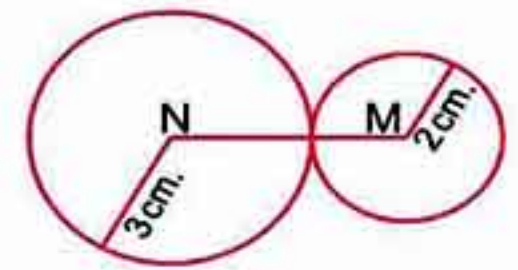
(19) $(8.3 - 2.14) \times 100 =$

(20) If $\{4, a, 7\} = \{b, 5, 7\}$, then $a =$ and $b =$

(21) $1.775 \times 0.15 \approx$ (to the nearest hundredth)

(22) In the opposite figure :

The length of $\overline{MN} =$





3 Answer the following :

(23) A bag contains 4 white balls , 5 red balls and 6 black balls.

All balls are identical and equal in size. If a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] Red ?

[b] White or black ?

(24) If the price of one metre of cloth is L.E. 6.45

What is the cost of 2.4 metres of cloth ?

(25) If $U = \{1, 2, 3, 4, 5, 7, 9\}$

, $X = \{1, 2, 3, 4\}$ and $Y = \{3, 4, 7, 9\}$

Draw a Venn diagram that represents

the sets U , X and Y

(26) Draw the ΔABC where $AB = 4$ cm.

, $BC = 5$ cm. and $CA = 6$ cm.

, then draw its altitudes.

What is the type of ΔABC according

to its side lengths ?

3 Cairo Governorate

El-Mataryia Educational Zone
Gabor Al-Ansary Language School



Answer the following questions :

1 Complete the following :

(1) $36.274 + 33.28 = \dots \approx \dots$ (to the nearest $\frac{1}{100}$)

(2) $\frac{1}{2} \div \frac{1}{8} = \dots$

(3) $2\ 600$ gm. $\approx \dots$ kg. (to the nearest kg.)

(4) $\{3, 4, 5\} \cup \{1, 4, 5\} = \dots$

(5) If $\{2, 5, 7\} = \{5, x, 2\}$, then $x = \dots$





- (6) The longest chord in the circle is called
- (7) ABC is an equilateral triangle of side length 4.1 cm.
 , then its perimeter = cm.
- (8) The probability of the impossible event is

2 Choose the correct answer :

- (9) The right-angled triangle has altitudes. (0 or 1 or 2 or 3)
- (10) The length of the diameter = ($\frac{1}{2} \times r$ or r or $2 \times r$ or $3 \times r$)
- (11) If $X \subset Y$, then $X \cap Y =$ (X or Y or U or \bar{X})
- (12) If $U = \{2, 3, 4, 5, 6, 7\}$, then \emptyset U
 (\notin or \in or $\not\subset$ or \subset)
- (13) 3 the set of odd numbers. (\notin or \in or $\not\subset$ or \subset)
- (14) The set of odd numbers is set.
 (a finite or an infinite or an empty)
- (15) $\{3, 4\}$ $\{3, 4, 5, 2\}$ (\notin or \in or $\not\subset$ or \subset)
- (16) $\frac{1}{2} \times 4 =$ (2 or 4 or 3 or 6)
- (17) The quotient of dividing $2.25 \div 1.5 =$
 (1.5 or 15 or 0.15 or 500)
- (18) $\frac{1}{2}$ $\frac{3}{4}$ (< or > or \geq or =)
- (19) $327 \div 24 = 3.27 \div$ (2.4 or 0.24 or 240 or 2400)
- (20) $7.64 \times 0.93 \approx$ (to the nearest thousandth)
 (7.1052 or 710.52 or 7.105 or 7.106)
- (21) $54.593 \approx 54.6$ to the nearest
 ($\frac{1}{10000}$ or $\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$)
- (22) $325.4 \div 10$ $3254 \div 100$ (< or > or =)

3 Answer the following :

- (23) A box contains 6 yellow balls , 3 blue balls and 3 red balls. If one ball is drawn randomly , find the probability that the drawn ball is :
- [a] Yellow = [b] Not blue =





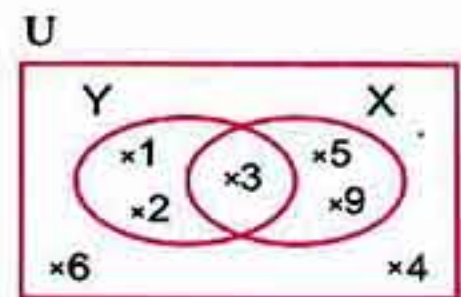
(24) By using the opposite Venn diagram , find :

[a] $X \cup Y = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[d] $\bar{Y} = \dots\dots\dots$



(25) Draw $\triangle ABC$ where $AB = 6$ cm.

, $AC = BC = 5$ cm.

, then draw $\overline{CD} \perp \overline{AB}$

(26) Find with steps :

[a] $53.55 \div 3.15 = \dots\dots\dots$

[b] $2 \frac{3}{4} \div 1 \frac{3}{8} = \dots\dots\dots$

4 Cairo Governorate

Dar El-Salam and El-Basateen Educational Zone
Mathematics Supervision



Answer the following questions :

1 Complete the following :

(1) $\frac{3}{7} \times \dots\dots\dots = 1$

(2) $\{5, 6\} \cap \{4, 5\} = \dots\dots\dots$

(3) $84.61 + 23.473 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest 2 decimal places)

(4) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$

(5) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(6) The longest chord in the circle is called

(7) The number of elements of the null set =

(8) The altitudes of the right-angled triangle intersect at one point located at

(9) The probability of the certain event is

(10) The area of the rectangle of 15.5 metres length and 5.5 metres width is

2 Choose the correct answer :

(11) If $\{4, 8\} = \{1 + y, 4\}$, then $y = \dots\dots\dots$ (3 or 4 or 6 or 7)

(12) The number of altitudes of any triangle =

(1 or 2 or 3 or 4)





- (13) 10×4.72 100×0.472 ($>$ or $<$ or $=$ or otherwise)
- (14) \emptyset $\{3, 5\}$ (\notin or \in or \subset or $\not\subset$)
- (15) ABC is an equilateral triangle of side length 4.5 cm.
 , then its perimeter = cm. (12 or 13.5 or 15 or 9)
- (16) The smallest number from the following is
 (0.111 or 0.12 or 0.123 or 1.023)
- (17) When tossing a coin once , then the probability of appearing
 a tail = (0 or 1 or $\frac{1}{2}$ or 2)
- (18) $\{1, 2\} \cup \{2, 3\} =$ ($\{2\}$ or $\{1, 3\}$ or $\{1, 2, 3\}$ or \emptyset)

3 Answer the following :

- (19) Arrange in a descending order : $\frac{1}{4}$, 0.8 , 0.4 and $\frac{1}{2}$
 The order is : , and
- (20) $5 \frac{1}{3} \times 9 =$ (21) $2.5 \times 4.42 =$
- (22) $25.25 \div 0.25 =$ (23) $\{2, 5, 8\} - \{3, 5, 7\} =$
- (24) Draw the equilateral triangle ABC
 whose side length is 6 cm.
 , then draw the three altitudes
 of this triangle.
- (25) If the universal set $U = \{x : x \text{ is an odd number less than } 15\}$,
 $X = \{1, 3, 5\}$ and $Y = \{1, 5, 9, 13\}$
 Draw a Venn diagram which represents the sets U , X and Y,
 then find : $X \cap Y$, $X - Y$ and Y
- (26) As thrown a fair die once , calculate the probability of :
 [a] Appearing a number greater than 6
 [b] Appearing an even number



5 Giza Governorate

El-Dokki Educational Directorate
Talano Al-Mustakbal Language School



Answer the following questions :

1 Choose the correct answer :

- (1) $5.035 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$) (5 or 500 or 5.04 or 5.03)
- (2) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset)
- (3) The probability of impossible event = $\dots\dots\dots$ (0 or 1 or $\frac{1}{2}$ or \emptyset)
- (4) The set of odd numbers is $\dots\dots\dots$ set.
(a finite or an empty or an infinite)
- (5) $32.5 \div 100 = \dots\dots\dots$ (0.32 or 0.325 or 3250 or 325.2)
- (6) The number of subsets of the set $\{a, b\}$ is $\dots\dots\dots$
(3 or 4 or 5 or 2)
- (7) $327.5 \times 100 = \dots\dots\dots$ (3276 or 32750 or 327500)
- (8) $\frac{2}{4} \square \frac{1}{2}$ (> or < or = or \neq)
- (9) The radius length of the circle = $\dots\dots\dots$ the diameter length.
($\frac{1}{2}$ or $\frac{1}{4}$ or 2)
- (10) The probability of sure event = $\dots\dots\dots$ (1 or 0 or 10 or \emptyset)
- (11) The probability of getting an odd number when rolling a die
once = $\dots\dots\dots$ ($\frac{1}{2}$ or $\frac{1}{3}$ or 2 or 0)
- (12) The length of any chord \square the length of the diameter in the same
circle. (< or > or \leq or =)
- (13) $\emptyset \dots\dots\dots \{0\}$ (\in or \notin or \subset or $\not\subset$)
- (14) If $\{5, 7\} = \{x + 2, 5\}$, then $x = \dots\dots\dots$ (2 or 5 or 7 or 3)

2 Complete the following :

- (15) If $X \cap Y = \emptyset$, then X and Y are $\dots\dots\dots$ sets.
- (16) $25.71 + 3.5 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest $\frac{1}{10}$)
- (17) $\frac{2}{5} \div \frac{7}{5} = \dots\dots\dots$
- (18) $1\frac{2}{3} \times \frac{3}{7} = \dots\dots\dots$



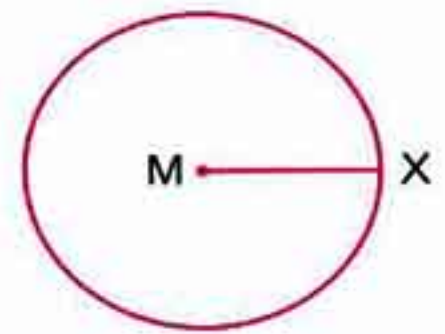
(19) In the opposite figure :

\overline{MX} is called

(20) $22.5 \div \dots = 0.225$

(21) 36 days \approx weeks (to the nearest week)

(22) The measure of the right angle =°



3 Answer the following :

(23) $8636 \div 254 = \dots$ (with steps)

(24) Arrange in an ascending order :

$\frac{1}{2}$, $3\frac{1}{4}$, $7\frac{1}{8}$ and 0.2

The order is : , and

(25) A box contains 5 red balls , 3 blue balls and 2 black balls , what's the probability of getting :

[a] Red ball ?

[b] Yellow ball ?

[c] Black or red ball ?

[d] Blue ball ?

(26) Using your compasses and ruler

to draw $\triangle ABC$ where $AB = 7$ cm. and

$BC = AC = 5$ cm. , then draw $\overline{CD} \perp \overline{AB}$,

find the length of \overline{CD}

6 Giza Governorate

El-Haram Educational Directorate
Elwy Language Schools



Answer the following questions :

1 Choose the correct answer :

(1) If $\frac{1}{2} = \frac{x}{8}$, then $x = \dots$

(1 or 3 or 4 or 5)

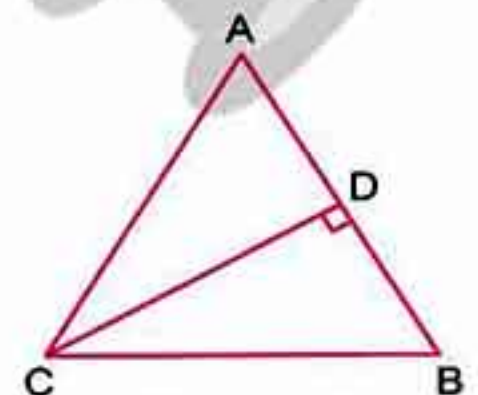
(2) The decimal form of the fraction $\frac{13}{20}$ is

(0.13 or 0.65 or 6.5 or 0.065)

(3) In $\triangle ABC$,

is the corresponding

base to the altitude \overline{CD}



(\overline{AC} or \overline{BC} or \overline{AB} or \overline{BD})



- (4) In a square , if its side length = 3.5 cm. , then its area = cm²
(14 or 122.5 or 12.25 or 7)
- (5) If $X \subset Y$, then $X \cap Y =$ (X or Y or $X \cup Y$ or $X - Y$)
- (6) $78.95 + 59.379 \approx$ (to the nearest $\frac{1}{100}$)
(67.274 or 138.3 or 138.32 or 138.33)
- (7) 51 days \approx weeks (to the nearest week) (5 or 6 or 7 or 8)
- (8) If $\{4, 7\} = \{7, x - 1\}$, then $x =$ (3 or 4 or 5 or 6)
- (9) 987.65 cm. \approx metres. (98765 or 99 or 98 or 10)
- (10) $2 \frac{1}{4} \div 3 \frac{3}{8} =$ ($1 \frac{1}{2}$ or $\frac{2}{3}$ or $\frac{243}{32}$ or $\frac{3}{32}$)
- (11) $\frac{1}{2}$ hour \approx minutes. (15 or 30 or 45 or 60)
- (12) $1 \frac{2}{3} \times 1 \frac{1}{5} =$ ($2 \frac{3}{8}$ or 2 or $1 \frac{7}{18}$ or $\frac{13}{15}$)
- (13) A chord which passes through the centre of a circle is called a
(radius or diameter or tangent or side)
- (14) The smallest fraction of the following is ($\frac{1}{3}$ or $\frac{2}{5}$ or $\frac{5}{8}$ or $\frac{2}{9}$)

2 Complete each of the following :

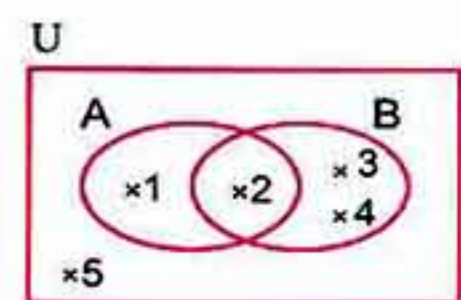
- (15) The probability of an impossible event =
- (16) In an equilateral triangle , if its side length is 7.25 cm.
 , then its perimeter = cm.
- (17) $859.7 \div 1000 =$
- (18) $\{2, 3, 5\} \cap \{23, 35\} =$
- (19) $\{1, 4, 7\} \cap \{4, 5\} =$
- (20) The number of altitudes of any triangle is
- (21) The sum of the measures of the interior angles of any triangle =°
- (22) $6 \frac{1}{4}$ km. = metres.

3 Answer the following :

- (23) From the opposite figure , find :

[a] $A - B =$

[b] $\hat{A} =$



(24) Draw a circle M of radius length 4 cm.

, draw the diameter \overline{AB}

, the chord \overline{AC} of length 5 cm.

, and the chord \overline{BC}

, then find by measuring :

[a] The length of \overline{BC} =

[b] $m(\angle C) = \dots\dots\dots^\circ$

(25) A box contains 6 white balls , 9 red balls and 4 yellow balls , all of them are equal in size. One ball is drawn randomly from this box.

Find the probability of getting :

[a] White ball =

[b] Ball which is not yellow =

(26) If the price of one metre of cloth is L.E. 39.8

What is the price of 8.5 metres to the nearest L.E. ?

7 Alexandria Governorate

West Educational Zone
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{3}{4}$ of a day = hours.

(24 or 30 or 18 or 12)

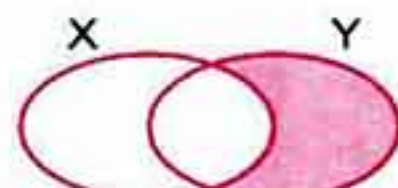
(2) $5 \dots\dots\dots \{8, 6\} \cap \{3, 6, 1, 5\}$

(\in or \notin or \subset or $\not\subset$)

(3) $\emptyset \dots\dots\dots \{2, 6, 1, 5\}$

(\in or \notin or \subset or $\not\subset$)

(4) The length of the longest chord in the circle is 6 cm. , then the length of the radius of this circle = cm. (6 or 3 or 4.5 or 12)

- (5) 4.75 km. = m. (4.75 or 47.5 or 475 or 4750)
- (6) When tossing a coin once , then the probability of appearing a tail = (0 or 1 or $\frac{1}{2}$ or 2)
- (7) The right-angled triangle has height(s). (1 or 3 or 4 or 2)
- (8) 36.762 \approx (to the nearest hundredth) (36.762 or 36.8 or 36.76 or 36.76)
- (9) The shaded part in the opposite figure represents  (X \cap Y or X - Y or X \cup Y or Y - X)
- (10) 4.238×100 420.38×10 (< or > or =)
- (11) The probability of the certain event = (0 or 1 or $\frac{1}{2}$ or \emptyset)
- (12) If $A \subset B$, then $A \cap B =$ (A or B or \emptyset or \bar{A})
- (13) If $\frac{2}{3} = \frac{a}{12}$, then a = (4 or 3 or 12 or 8)
- (14) $4 \frac{1}{2}$ 4.51 (< or > or =)

2 Complete each of the following :

- (15) All the radii of the circle are
- (16) If $\{1, x + 3\} = \{9, 1\}$, then $x =$
- (17) The altitudes of the obtuse-angled triangle intersect at one point which lies the triangle.
- (18) $\{2, 6, 1, 5\} - \{3, 6, 1, 5\} =$
- (19) $38.76 + 25.38 =$ (20) $896.42 \div 100 =$
- (21) $0.675 \times 2.3 =$ (22) $12 \frac{1}{2} \div 6 \frac{1}{4} =$

3 Answer the following :

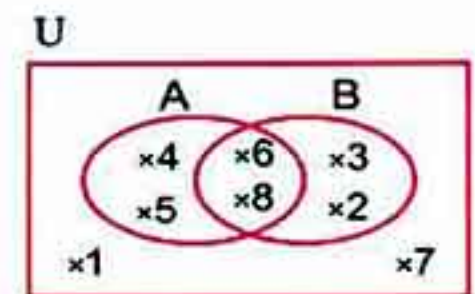
(23) By using the opposite Venn diagram , find :

[a] $A \cap B =$

[b] $A \cup B =$

[c] $A - B =$

[d] $\bar{A} =$





(24) A box contains 5 white balls , 2 blue balls and 4 red balls , all of balls are equal in size, one ball is drawn randomly , find the probability that the drawn ball is :

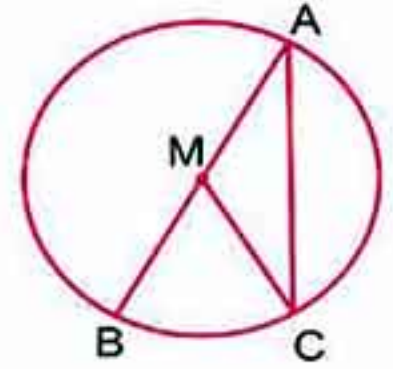
[a] White =

[b] Not green =

(25) Complete using the opposite figure :

[a] \overline{AB} is called

[b] \overline{AC} is called



(26) Draw the triangle ABC in which
 $AB = 6 \text{ cm.}$, $BC = 8 \text{ cm.}$
 and $AC = 10 \text{ cm.}$

[a] Find by measuring $m(\angle B)$

[b] What is the type of $\triangle ABC$
 according to its angles ?

8 Alexandria Governorate

Al-Agamy Educational Zone
 Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $(72.12 + 12.7) \div 100 = \dots\dots\dots$ (0.8419 or 0.8482 or 84.82)

(2) $\frac{1}{2} \div \frac{7}{4} = \dots\dots\dots$ (in the simplest form) ($\frac{7}{8}$ or $\frac{4}{14}$ or $\frac{2}{7}$)

(3) $8.657 \text{ m.} = \dots\dots\dots \text{ cm.}$ (865.7 or 8657 or 866)

(4) $3721 \div 1000 \square 0.3721 \times 100$ (< or > or =)

(5) $33.51 \text{ kg.} = \dots\dots\dots \text{ gm.}$ (3351 or 33510 or 335100)

(6) $\emptyset \dots\dots\dots \{0\}$ (\in or \notin or \subset or \supset)

(7) If $\{3, 5, 9\} = \{5, x+1, 3\}$, then $x = \dots\dots\dots$ (9 or 8 or 4 or 16)

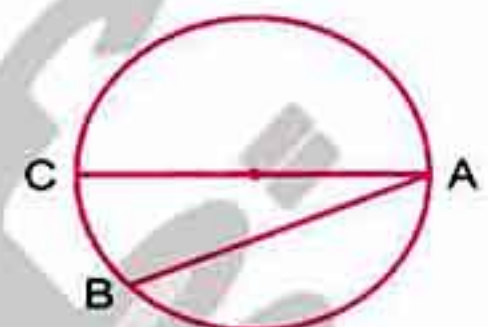




- (8) In a triangle ABC , if $m(\angle A) = 50^\circ$ and $m(\angle C) = 60^\circ$, then the triangle is-angled triangle.
(an acute **or** a right **or** an obtuse)
- (9) 35 the set of digits of number 3500 (\in **or** \notin **or** \subset)
- (10) If the length of the longest chord of the circle is 13 cm. , then the length of any radius = cm. (26 **or** 6 **or** 6.5 **or** 11)
- (11) $\{12\} - \{12, 14\} = \dots\dots\dots$ (12 **or** $\{14\}$ **or** \emptyset **or** $\{0\}$)
- (12) The number of the altitudes of the triangle is
(4 **or** 2 **or** 3 **or** 1)
- (13) $15 \div 4 \approx \dots\dots\dots$ (to the nearest tenth) (3.75 **or** 3.8 **or** 3.7 **or** 4)
- (14) $2 \frac{4}{5} \square 2.16$ (< **or** > **or** =)

2 Complete the following :

- (15) The shaded part in the opposite figure represents of two sets.
- (16) When tossing a die once the probability of appearing a prime number is
- (17) A square of side length 6.5 cm. , its area is cm^2
- (18) 240 months = years.
- (19) The altitudes of the acute-angled triangle intersect at one point the triangle.
- (20) $\{2, 12, 7, 10\} \cap \{5, 4, 12, 10\} = \dots\dots\dots$
- (21) $\frac{12}{9} \div 1 \frac{3}{27} = \dots\dots\dots$ (in the simplest form)
- (22) In the opposite figure :
 \overline{AB} is called of the circle.



3 Answer the following :

- (23) If $U = \{0, 2, 4, 6, 8, 10\}$
 $X = \{2, 6, 8\}$ and $Y = \{6, 10\}$
 , draw a Venn diagram that represents the sets U , X and Y
 , then find $X \cap Y$, X and Y



(24) Arrange in a descending order : 0.225 , $\frac{3}{8}$, $\frac{3}{4}$ and 0.45

(25) In a school, there are 250 girls and 350 boys, a student is chosen randomly, find :

[a] The probability that the chosen student is a boy =

[b] The probability that the chosen student is a girl =

(26) Draw a triangle ABC where

AB = 6 cm. and BC = AC = 5 cm.

9 El-Kalyoubia Governorate

Banha Educational Zone
Maths Supervision



Answer the following questions :

1 Choose the correct answer from those given :

(1) $3 \dots \{3, 13, 23, 33\}$ (\in or \notin or \subset or $\not\subset$)

(2) $3.75 \times 1000 = \dots$ (0.375 or 0.0375 or 3750 or 37.5)

(3) $\frac{1}{3} \times \frac{3}{4} = \dots$ ($\frac{1}{3}$ or $\frac{3}{4}$ or $\frac{1}{2}$ or 0.25)

(4) The perimeter of the equilateral triangle which its side length is 3.2 cm. = cm. (9 or 9.2 or 9.6 or 9.4)

(5) 43 days \approx weeks (to the nearest week) (4 or 5 or 6 or 7)

(6) If $\frac{a}{3} = \frac{5}{15}$, then $a = \dots$ (4 or 5 or 1 or 2)

(7) $14.4 \times 10 \square 144$ ($>$ or $<$ or $=$ or otherwise)

(8) $\emptyset \dots \{5, 6\}$ ($\not\subset$ or \subset or \in or \notin)

(9) $31.295 + 21.61 \approx \dots$ (to the nearest $\frac{1}{100}$)
(52.905 or 52.90 or 52.91 or 52.92)

(10) $\{1, 3, 5\} \cap \{2, 4, 6\} = \dots\dots\dots$

$(\{1, 2\} \text{ or } \emptyset \text{ or } \{4, 6\} \text{ or } \{2, 4, 6\})$

(11) $\frac{7}{9} \div 1\frac{1}{9} = \dots\dots\dots$

$(\frac{8}{9} \text{ or } \frac{10}{9} \text{ or } \frac{7}{10} \text{ or } \frac{9}{10})$

(12) If $5 \in \{4 + x, 3\}$, then $x = \dots\dots\dots$

$(1 \text{ or } 2 \text{ or } 3 \text{ or } 4)$

(13) The number of the altitudes in any triangle = $\dots\dots\dots$

$(1 \text{ or } 2 \text{ or } 3 \text{ or } 4)$

(14) If the length of the radius of a circle is 3 cm., then the length of its diameter = $\dots\dots\dots$ cm.

$(3 \text{ or } 6 \text{ or } 9 \text{ or } 12)$

2 Complete the following :

(15) The set of the digits of the number 7353 is $\dots\dots\dots$

(16) $2.64 \times 0.2 = \dots\dots\dots$

(17) As throwing a fair die once, then the probability of appearing the number 5 is $\dots\dots\dots$

(18) 3.002 kg. = $\dots\dots\dots$ gm.

(19) $3\frac{1}{8} \approx \dots\dots\dots$ (to the nearest $\frac{1}{10}$)

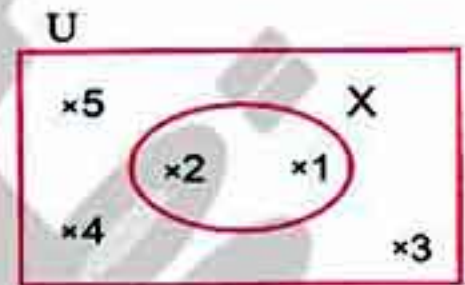
(20) $\frac{14}{5} = \frac{\dots\dots\dots}{10}$

3 Answer the following :

(21) By using the opposite Venn diagram, complete :

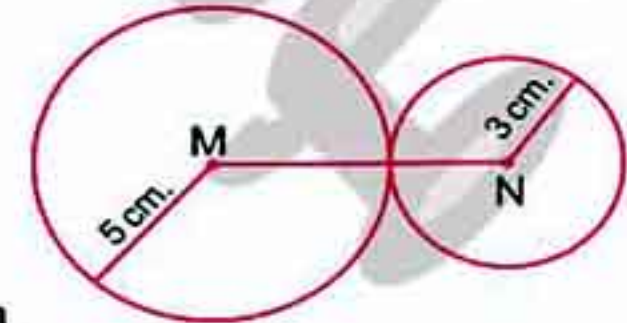
[a] $U = \dots\dots\dots$

[b] $X^c = \dots\dots\dots$



(22) In the opposite figure :

M and N are two circles.

Then the length $\overline{MN} = \dots\dots\dots$ cm.

(23) Write down all the subsets for the set $A = \{3, 7\}$

 $\dots\dots\dots$

(24) If $X = \{3, 4, 5\}$ and $Y = \{5, 6\}$, then find : $X \cup Y = \dots\dots\dots$

and $X - Y = \dots\dots\dots$

(25) Complete :

The probability of pupil' success in an exam is $\frac{7}{10}$, then the probability of his failure is

(26) Draw the triangle ABC in which

AB = BC = CA = 5 cm.

10 El-Sharkia Governorate

Directorate of Education
Dep. of Governmental Formal School



Answer the following questions :

1 Choose the correct answer :

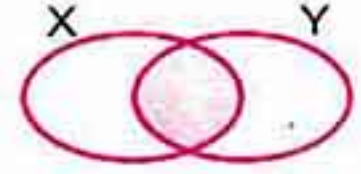
- (1) $3.75 \times 100 = \dots\dots\dots$ (0.375 or 37.5 or 375 or 0.0375)
- (2) $\frac{1}{2} \square 0.3$ (< or > or = or \leq)
- (3) $\{5\} \dots\dots\dots \{5, 8\}$ (\subset or $\not\subset$ or \in or \notin)
- (4) When tossing a coin once, the probability of appearing a tail =
- (0 or 1 or 2 or $\frac{1}{2}$)
- (5) $\frac{4}{3} \times \frac{3}{4} = \dots\dots\dots$ (0 or 1 or 3 or 4)
- (6) The number of altitudes of any triangle =
- (1 or 2 or 3 or 4)
- (7) $\{5\} - \{1, 5\} = \dots\dots\dots$ ($\{15\}$ or $\{5\}$ or $\{1\}$ or \emptyset)
- (8) 3.36 km. = m. (3.36 or 33.6 or 336 or 3360)
- (9) 43 days \approx weeks. (to nearest week) (4 or 6 or 5 or 7)
- (10) If $3 \in \{x, 5\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 6)
- (11) Any chord passing through the centre of the circle is called a
- (diameter or radius or chord)



(12) $48.4 \div 4 = \dots\dots\dots$

(1.21 or 0.121 or 12.1 or 121)

(13) The shaded part in the opposite figure represents



(X ∩ Y or X ∪ Y or X - Y or Y - X)

(14) $312 \div 10 = \dots\dots\dots$

(3.12 or 0.312 or 31.2 or 3120)

2 Complete :

(15) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(16) The probability of the sure event =

(17) $2.4 \times 0.7 = \dots\dots\dots$

(18) $4.679 \approx \dots\dots\dots$ (to the nearest hundredth)

(19) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$

(20) $\frac{4}{12} \div \frac{5}{12} = \dots\dots\dots$

(21) A circle of diameter length = 4 cm., then its radius length = cm.

(22) If $\{1, a\} = \{2, b\}$, then $a = \dots\dots\dots$ and $b = \dots\dots\dots$

3 Answer the following :

(23) An owner of packing food factory wanted to divide 5904 kilograms of sugar equally in 492 packs. What's the weight of each pack ?
.....

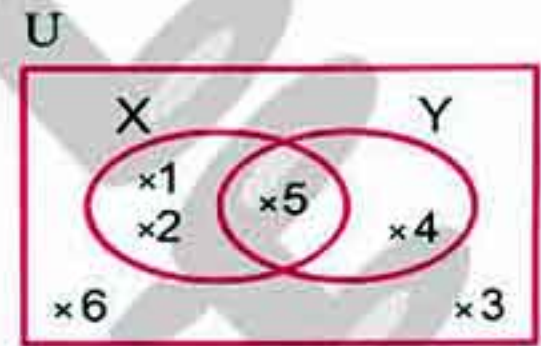
(24) Look at the opposite Venn diagram, then complete :

[a] $X \cup Y = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[d] $X^c = \dots\dots\dots$

(25) A box contains identical balls where 5 balls are white, 3 red and 7 black, If one ball is chosen randomly, what is the probability that the chosen ball is white ?
.....

- (26) Draw a circle M of radius length 3 cm.
 And draw the diameter \overline{AB}
 , then find the length of \overline{AB}
 $AB = \dots\dots\dots$ cm.

11 El-Monofia Governorate

 Shibin El-Kom Educational Directorate
 Maths Department


Answer the following questions :

- 1 Choose the correct answer from those between brackets :
- (1) The number of months in half of a year = $\dots\dots\dots$ (6 or 3 or 5 or 9)
- (2) The number of subsets of the set $\{4, 5\}$ equals $\dots\dots\dots$
 (2 or 3 or 4 or 9)
- (3) As throwing a fair die once, then the probability of appearing the
 number 5 equals $\dots\dots\dots$ ($\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{5}{6}$ or $\frac{2}{3}$)
- (4) If $X \subset Y$, then $X - Y = \dots\dots\dots$ (X or Y or \emptyset or U)
- (5) The number 276.5327 approximated to the nearest thousandth = $\dots\dots\dots$
 (277 or 276.533 or 276.54 or 276.5)
- (6) The smallest fraction in the following is $\dots\dots\dots$
 ($\frac{1}{3}$ or $\frac{5}{8}$ or $\frac{2}{9}$ or $\frac{2}{5}$)
- (7) If $\{7, 10\} = \{10, x + 4\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 6)
- (8) $\{9\} \dots\dots\dots \{99\}$ (\in or \notin or \subset or $\not\subset$)
- (9) If $X = \{1, 4, 5\} \cap \{5, 3, 7\}$, then $1 \dots\dots\dots X$ (\in or \notin or \subset or $\not\subset$)
- (10) If $\{3, 6\} = \{1 + x, 3\}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)
- (11) To draw a circle of diameter length 12 cm. , then the opening distance
 of compasses should be $\dots\dots\dots$ cm. (12 or 6 or 9 or 24)
- (12) If M is a circle whose diameter length is 8 cm. where $MA = 7$ cm.
 , then the point A is located $\dots\dots\dots$ the circle.
 (inside or outside or on or otherwise)



(13) If $\frac{2}{5} = \frac{a}{15}$, then $a = \dots\dots\dots$ (6 or 12 or 9 or 4)

(14) The quotient of dividing $5.45 \div 0.5 = \dots\dots\dots$
(1.9 or 1.09 or 10.9 or 109)

2 Complete :

(15) $99.995 = \dots\dots\dots$ (to the nearest hundredth)

(16) 5.4 tons = $\dots\dots\dots$ kg. (17) $\frac{3}{8} \times \frac{2}{9} = \dots\dots\dots$

(18) If $X \cap Y = Y$, then $\dots\dots\dots \subset \dots\dots\dots$

(19) The number of altitudes of the obtuse-angled triangle is $\dots\dots\dots$

(20) The chord of the circle which passes through its centre is called a $\dots\dots\dots$

(21) $25.25 \div 0.25 = \dots\dots\dots$

(22) $3.75 \times 1000 = \dots\dots\dots$

3 Answer the following :

(23) Arrange the following numbers ascendingly : $\frac{1}{4}$, 0.8, 0.4, $\frac{1}{2}$ and $\frac{3}{4}$
 $\dots\dots\dots$

(24) Represent the two sets A and B by a Venn diagram where

$A = \{1, 2, 3, 6\}$ and $B = \{2, 3\}$, then find :

[a] $A \cap B = \dots\dots\dots$

[b] $A \cup B = \dots\dots\dots$

(25) Draw ΔXYZ which is equilateral and its side length = 4 cm.
Draw a circle of center X and radius length 4 cm.

(26) A bag contains 5 red balls, 8 black balls and 7 white balls, all of them are identical and equal in size. A ball is drawn randomly, calculate the probability that :

[a] The drawn ball is black = $\dots\dots\dots$

[b] The drawn ball isn't green = $\dots\dots\dots$



12 El-Gharbia Governorate

 El-Gharbia Educational Directorate
 Maths Supervision


Answer the following questions :

1 Choose the correct answer :

- (1) 10 halves 20 quarters. ($<$ or $>$ or $=$)
- (2) $35.7 \div 100 = \dots\dots\dots$ (0.357 or 3570 or 357)
- (3) The longest chord in the circle is called a $\dots\dots\dots$
 (radius or diameter or centre)
- (4) $(A \cap B) \dots\dots\dots A$ ($\not\subset$ or \subset or \in)
- (5) $2 \frac{1}{3} \times \dots\dots\dots = 1$ ($\frac{3}{7}$ or $\frac{7}{3}$ or $2 \frac{1}{2}$)
- (6) $X \cap X^c = \dots\dots\dots$ (\emptyset or U or X)
- (7) $6.25 \div 2.5 = 62.5 \div \dots\dots\dots$ (250 or 25 or 0.25)
- (8) 2.5×53.8 0.25×5.38 ($<$ or $>$ or $=$)
- (9) $24.637 \approx \dots\dots\dots$ (to the nearest hundredth)
 (24.64 or 24.63 or 24.6)
- (10) $\{5, 7\} - \{3, 5, 8\} = \dots\dots\dots$ (\emptyset or $\{5, 3, 8\}$ or $\{7\}$)
- (11) If A and B are disjoint sets, then $A - B = \dots\dots\dots$ (\emptyset or A or B)
- (12) The number of altitudes in any triangle is $\dots\dots\dots$ (1 or 2 or 3)
- (13) 538.7 cm. $\approx \dots\dots\dots$ m. (6 or 5.387 or 5)
- (14) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$ (X or Y or \emptyset)

2 Complete each of the following :

- (15) $3 \frac{1}{2} \div \frac{7}{12} = \dots\dots\dots$
- (16) 3.56 km. = $\dots\dots\dots$ m.
- (17) $\{2, 4, 6\} \cap \{2, 3, 5, 7\} = \dots\dots\dots$
- (18) A circle the length of its radius is 5 cm. , then the length of its diameter is $\dots\dots\dots$ cm.
- (19) The probability of the impossible event = $\dots\dots\dots$
- (20) The altitudes of any triangle intersect at $\dots\dots\dots$ point(s).
- (21) If $a \in \{1, 3, 5\} \cap \{2, 3, 7\}$, then $a = \dots\dots\dots$
- (22) $43.6 \div 4 = \dots\dots\dots$



3 Answer the following :

(23) If the price of one metre of cloth is 27.5 pounds.

What is the price of 3 metres of same kind ?

The price of 3 metres = = pounds.

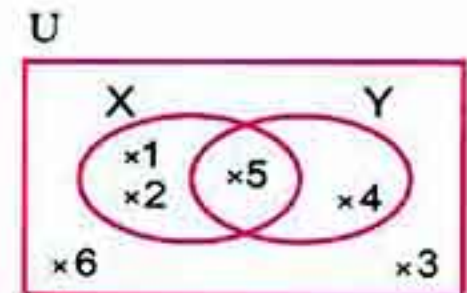
(24) From the opposite Venn diagram
, find by listing method :

[a] $X \cap Y = \dots\dots\dots$

[b] $X \cup Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[b] $\bar{X} = \dots\dots\dots$



(25) Draw ΔABC in which $AC = 5$ cm.

, $AB = 4$ cm. and $BC = 3$ cm.

, then draw the altitude from B on \overline{AC}

(26) As throwing a fair die once, find the probability of :

[a] Appearing a prime number =

[b] Appearing a number less than or equal 6 =

[c] Appearing an even prime number =

[d] Appearing a number not divisible by 3 =

13 El-Dakahlia Governorate

Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $235 \div 15 = 23.5 \div \dots\dots\dots$

(1.5 or 0.15 or 150)

(2) If $\frac{8}{9} = \frac{a}{18}$, then $a = \dots\dots\dots$

(4 or 16 or 27)

(3) $50 \text{ cm}^2 = \dots\dots\dots \text{ dm}^2$

(0.05 or 50 or 0.5)

(4) $\{3\} \dots\dots\dots \{1, 2, 3\}$

(\in or \subset or $\not\subset$)

(5) If the probability of pupil's success is $\frac{4}{5}$, then the probability of his failure is

(1 or 0.2 or 0.1)

(6) 39 days \approx weeks.

(5 or 6 or 7)

(7) $2 \frac{1}{2} \div \frac{1}{4} = \dots\dots\dots$

(5 or 10 or 4)



2 Complete each of the following :

- (8) The probability of the sure event is
- (9) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$
- (10) The number of the altitudes of the right-angled triangle is
- (11) The perimeter of a square = $\frac{1}{5}$ metre, then it's side length = cm.
- (12) $12.5 \times \dots\dots\dots = 1.25$
- (13) 15 tenths = tens.

3 Choose the correct answer :

- (14) $\emptyset \cup X = \dots\dots\dots$ (\emptyset or X or U)
- (15) If $\{3, x-1\} = \{3, 5\}$, then $x = \dots\dots\dots$ (6 or 4 or 3)
- (16) $\frac{8}{9} > \dots\dots\dots$ ($\frac{7}{8}$ or $\frac{9}{10}$ or $\frac{19}{20}$)
- (17) The line segment whose endpoints are the centre of the circle and any point \in the circle is called a
(chord or radius or diameter)
- (18) $\{2, 1, 17\}$ the set of digits of the number 2117
(= or \subset or $\not\subset$)
- (19) If $X \subset Y$, then $X - Y = \dots\dots\dots$ (X or Y or \emptyset)
- (20) 25×0.1 $25 \div 0.1$ (= or > or <)

4 Answer the following :

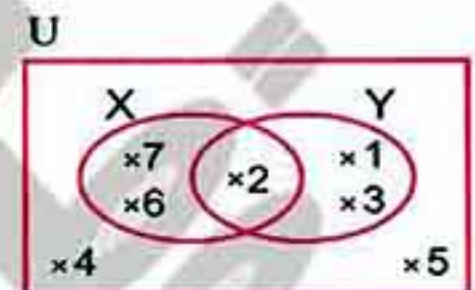
- (21) From the opposite figure, find by listing method :

[a] $X \cup Y = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[d] $(X \cup Y)^c = \dots\dots\dots$



- (22) A box contains 3 blue balls, 4 red balls and 5 green balls. All the balls are identical and equal in size, if a ball is drawn randomly, what is the probability that the drawn ball is :

[a] Blue ?

[b] Not blue ?

[c] Blue or red ?

[d] Black ?

- (23) Find with steps :

$2.8905 \div 1.23 = \dots\dots\dots$ (approximated to the nearest tenth)



(24) Ahmed bought 35 books, if the price of each book is 7.5 pounds, find the total price of all books to the nearest pound. (show the steps)

(25) Draw the equilateral triangle ABC whose side length = 6 cm. , then :

[a] Draw $\overline{AD} \perp \overline{BC}$

[b] Calculate the perimeter of $\triangle ABC$

14 Ismailia Governorate

Directorate of Education
Directing of Mathematics



Answer the following questions :

1 Choose the correct answer :

- (1) $\frac{4}{7} \square \frac{2}{3}$ ($<$ or $>$ or $=$)
- (2) The probability of certain event = ($\frac{1}{2}$ or 0 or 1 or $\frac{1}{4}$)
- (3) Any triangle has altitudes. (0 or 1 or 2 or 3)
- (4) \emptyset $\{5, 6\}$ (\in or \notin or \subset or $\not\subset$)
- (5) 8 halves = 20 fifths (\checkmark or \times)
- (6) If $X \subset Y$, then $X \cap Y =$ (X or Y or \emptyset or U)
- (7) If $\{7, 10\} \subset \{10, x + 4\}$, then $x =$ (3 or 4 or 6 or 10)
- (8) If $\frac{6}{8} < \frac{x}{8} < 1$, then $x =$ (1 or 7 or 8 or 6)
- (9) The smallest fraction of the following is ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$ or $\frac{1}{5}$)
- (10) To draw a circle with diameter 6 cm. , we open the compasses cm. (6 or 3 or 12 or 2)
- (11) 6.8 kg. = gm. (680 or 6080 or 7 or 6800)
- (12) $48.37 \div$ = 4.837 (10 or 100 or 1000 or 10000)
- (13) $\frac{2}{3} \div$ = 1 ($\frac{2}{3}$ or $\frac{3}{2}$ or 1 or $\frac{5}{6}$)
- (14) If $\frac{3}{6} = \frac{4}{x}$, then $x =$ (3 or 27 or 8 or 6)



2 Complete :

(15) $2.83 \times 1000 = \dots\dots\dots$

(16) $6.3729 \approx \dots\dots\dots$ (to the nearest $\frac{1}{1000}$)

(17) $2.3 \times 0.32 = \dots\dots\dots$

(18) $6\frac{3}{8} \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)

(19) If $U = \{0, 1, 2, 3, 4\}$ and $A = \{1, 3, 4\}$, then $\bar{A} = \dots\dots\dots$

(20) The reciprocal of $1\frac{2}{7}$ is $\dots\dots\dots$

(21) The longest chord in a circle is called $\dots\dots\dots$

(22) The line segment that joining between the centre of a circle and any point on a circle is called $\dots\dots\dots$

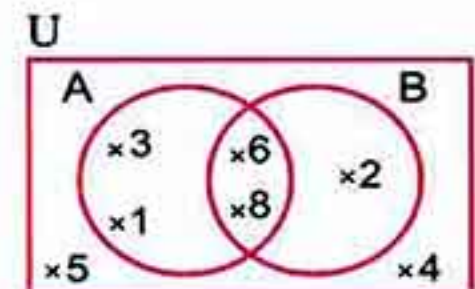
3 Answer the following :

(23) $1\frac{2}{3} \times \frac{1}{10} = \dots\dots\dots$

(24) Use the opposite Venn diagram to find :

[a] $A \cap B = \dots\dots\dots$

[b] $B - A = \dots\dots\dots$



(25) A bag contains 3 white balls, 5 yellow balls and 2 red balls, a ball is drawn randomly, find the probability that the drawn ball is :

[a] White = $\dots\dots\dots$

[b] Yellow or red = $\dots\dots\dots$

(26) Draw ABC isoscles triangle in which $AB = AC = 5$ cm. , $BC = 6$ cm. and draw \overline{AD} perpendicular to \overline{BC} , then find by measuring the length of \overline{AD}

15 Suez Governorate

 South Educational Directorate
 Maths Inspection



Answer the following questions :

1 Choose the correct answer :

(1) 55.241×100 552.41×10

(> or = or <)



- (2) $3 \frac{1}{2} \div \frac{7}{12} = \dots\dots\dots$ (6 or $\frac{49}{24}$ or 4)
- (3) $3 \dots\dots\dots \{303.13\}$ (\in or \subset or \notin)
- (4) Any triangle has $\dots\dots\dots$ altitudes. (1 or 3 or 2)
- (5) The longest chord in a circle is called a $\dots\dots\dots$
(diameter or radius or chord)
- (6) If $\{x + 1, 5\} = \{6, 5\}$, then $x = \dots\dots\dots$ (6 or 1 or 5)
- (7) $85.67 - 67.5 = \dots\dots\dots$ (18.17 or 22.2 or 22.17)
- (8) $276.532 \approx \dots\dots\dots$ (to the nearest hundredth)
(277 or 276.53 or 276.5)
- (9) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$ (X or Y or \emptyset)
- (10) The number of subsets of $\{4, 5\}$ equals $\dots\dots\dots$ (3 or 4 or 5)
- (11) The probability of the sure event is $\dots\dots\dots$ (0 or $\frac{1}{2}$ or 1)
- (12) $225 \div 25 = 2.25 \div \dots\dots\dots$ (0.25 or 2.5 or 25)
- (13) $572.4 \text{ cm.} \approx \dots\dots\dots$ metres. (572 or 6 or 60)
- (14) The shaded part of  represents $\dots\dots\dots$
($X \cap Y$ or $Y - X$ or $X - Y$)

2 Complete :

- (15) $3.75 \times 1000 = \dots\dots\dots$
- (16) If $\triangle ABC$ is equilateral of side length 6 cm. , then its perimeter = $\dots\dots\dots$ cm.
- (17) $\{3, 2, 4\} \cap \{13, 4, 20\} = \dots\dots\dots$
- (18) If $U = \{1, 2, 3, 4, 5\}$ and $A = \{2, 4\}$, then $\bar{A} = \dots\dots\dots$
- (19) Half of a year = $\dots\dots\dots$ months.
- (20) $39.76 \approx \dots\dots\dots$ (to the nearest unit)
- (21) If the length of longest chord in the circle is 10 cm.
, then its radius length = $\dots\dots\dots$ cm.
- (22) As tossing a coin once , then the probability of appearing a head is $\dots\dots\dots$

3 Answer the following :

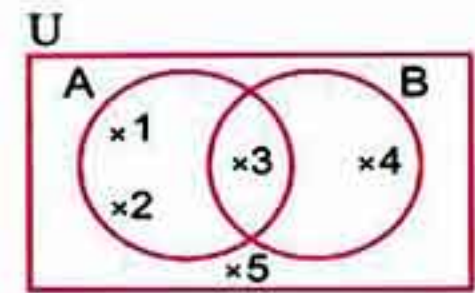
- (23) Arrange in an ascending order : $3 \frac{1}{4}$, 3.3 , 3.125 and $3 \frac{1}{2}$
 $\dots\dots\dots$



(24) From the opposite figure , find :

[a] $A \cap B = \dots\dots\dots$

[b] $(A - B)^c = \dots\dots\dots$



(25) As throwing a fair die once , find the probability of :

[a] Appearing a number greater than 6 = $\dots\dots\dots$

[b] Appearing the number 5 = $\dots\dots\dots$

(26) Draw $\triangle ABC$ in which $AB = 7$ cm.
 , $BC = 6$ cm. and $AC = 5$ cm.

16 Damietta Governorate

Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

(1) $25.6745 \approx \dots\dots\dots$ (to the nearest thousandth)

(25.674 or 25.675 or 25.67 or 25.68)

(2) 35.2694 pounds = $\dots\dots\dots$ piastres.

(0.352694 or 3.52694 or 35.2694 or 3526.94)

(3) The set of prime numbers more than 30 is $\dots\dots\dots$ set.

(a finite or an infinite or an empty or otherwise)

(4) Any chord passing through the centre of a circle is called $\dots\dots\dots$

(a diameter or a radius or a chord or otherwise)

(5) $2\frac{5}{7} \square 2\frac{3}{5}$

(> or = or \geq or <)

(6) $4\frac{1}{8} \times 2\frac{2}{3} = \dots\dots\dots$

(1 or 10 or 11 or 111)

(7) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$

(24 or 15 or 3 or 5)

(8) $\frac{1}{8} \div 0.5 = \dots\dots\dots$

(0.025 or 0.25 or 2.5 or 25)

(9) $23.21 \div 1000 = \dots\dots\dots$

(232.1 or 2.321 or 0.2321 or 0.02321)

(10) $0.3 \times 0.3 \times 0.3 = \dots\dots\dots$

(0.027 or 0.27 or 2.7 or 27)

(11) $\emptyset \dots\dots\dots \{8, 7, 5\}$

(\in or \notin or \subset or $\not\subset$)



- (12) $Y = \{2, 4, 6\} \cup \{1, 2, 3\}$, then 6 Y
(\in or \notin or \subset or $\not\subset$)
- (13) The number of subsets for the set $\{5, 6\}$ is
(1 or 2 or 3 or 4)
- (14) If M is a circle whose diameter length is 6 cm. where $MA = 5$ cm.
, then the point A is located the circle.
(inside or outside or on or otherwise)

2 Complete the following :

- (15) The probability of the sure event =
- (16) $3 \frac{1}{8} \div 2 \frac{1}{2} = \dots\dots\dots$
- (17) $\frac{5}{8} \approx \dots\dots\dots$ (to the nearest hundredth)
- (18) The greatest fraction from the following $\frac{1}{4}$, $\frac{1}{5}$ and 0.23 is
- (19) If $7 \in \{3, 3 + x\}$, then $x = \dots\dots\dots$
- (20) If $U = \{1, 2, 5\}$, $X = \{5\}$, then $\bar{X} = \dots\dots\dots$
- (21) The number of altitudes of the obtuse angled-triangle =
- (22) To draw a circle of diameter length 6 cm. , then the opening distance of the compasses =

3 Answer the following :

- (23) An owner of packing food factories wanted to pack 5405 kilograms of sugar equally in 235 packs. What is the weight of each pack ?
.....
- (24) Look at the opposite Venn diagram
, then find the following :
-
- [a] $X - Y = \dots\dots\dots$
- [b] $X \cap Y = \dots\dots\dots$
- (25) A bag contains 5 white balls , 9 red balls and 6 black balls , if one ball is chosen randomly. What is the probability that the chosen ball is :
[a] White ? [b] Red or black ?
- (26) Draw the triangle XYZ where
 $XY = XZ = 5$ cm. and $YZ = 6$ cm.
, then draw $\overline{XD} \perp \overline{YZ}$ that intersects \overline{YZ} at D



17 Kafr El-Sheikh Governorate

Maths Inspection



Answer the following questions :

1 Complete :

- (1) $1.775 \times 0.15 \approx \dots\dots\dots$ (to the nearest hundredth)
- (2) The probability of the sure event = $\dots\dots\dots$
- (3) If $\frac{2}{3} = \frac{16}{a}$, then $a = \dots\dots\dots$
- (4) The number of all the subsets of the set $\{2, 6\}$ is $\dots\dots\dots$
- (5) $5 \frac{1}{2} \div 3 \frac{2}{3} = \dots\dots\dots$
- (6) The longest chord in the circle is called $\dots\dots\dots$
- (7) If $\{a, 5, 8\} = \{b, 4, 8\}$, then $(a + b) = \dots\dots\dots$
- (8) If $X = Y$, then $X - Y = \dots\dots\dots$

2 Choose the correct answer :

- (9) $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots\dots\dots$ (0 or 10 or 11 or 111)
- (10) $\{73\} \dots\dots\dots \{7, 3\}$ (\in or \notin or \subset or $\not\subset$)
- (11) The number of altitudes of any triangle is $\dots\dots\dots$ (0 or 1 or 2 or 3)
- (12) In a class there are 40 pupils, 25 of them are boys and the rest is girls.
The probability of choosing a girl = $\dots\dots\dots$ ($\frac{3}{8}$ or $\frac{5}{8}$ or $\frac{3}{5}$ or 1)
- (13) $155.241 \times 100 \square 522.4 \times 10$ ($<$ or $>$ or $=$ or \leq)
- (14) A circle of radius length 4 cm. , then its diameter length = $\dots\dots\dots$ cm. (1 or 2 or 4 or 8)
- (15) If $X = \{2, 5, 6\} \cap \{3, 5\}$, then $X \dots\dots\dots \{3, 5\}$ (\in or \notin or \subset or $\not\subset$)
- (16) If $\{7, 10\} \subset \{10, x + 4, 5\}$, then $x = \dots\dots\dots$ (10 or 7 or 5 or 3)
- (17) 43 days $\approx \dots\dots\dots$ weeks. (to the nearest week) (5 or 6 or 7 or 8)
- (18) $m \dots\dots\dots \{\text{maths}\}$ (\in or \notin or \subset or $\not\subset$)



- (19) $4.25 \div \dots = 8 \frac{1}{2}$ (2 or 12.75 or $\frac{1}{4}$ or 0.5)
 (20) $2.4 \text{ dm.} = \dots \text{ cm.}$ (240 or 24 or 0.24 or 0.024)
 (21) $37440 \div 234 = \dots$ (16 or 106 or 160 or 1600)
 (22) If $6 \in \{3, 5, 2x\}$, then $x = \dots$ (2 or 3 or 4 or 5)

3 Answer the following :

- (23) The area of a rectangle = 10.25 m^2 and its length is 4.1 m .
Find the width and the perimeter of this rectangle.

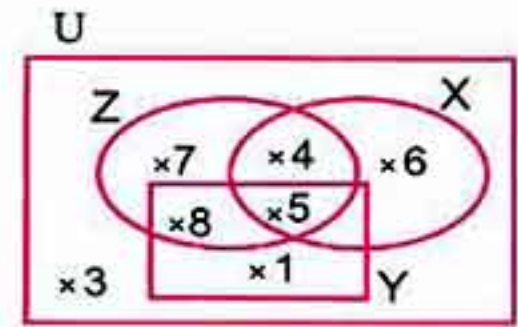
- (24) Look at the opposite figure , then complete :

[a] $X \cup Y = \dots$

[b] $Z \cap Y = \dots$

[c] $X - Z = \dots$

[d] $(Z \cup X)^c = \dots$



- (25) Arrange the following fractions in an ascending order :

0.6 , $\frac{2}{5}$, 0.8 and $\frac{3}{4}$

The order is : , and

- (26) Draw $\triangle ABC$ in which $AB = 3 \text{ cm}$.

, $BC = 4 \text{ cm}$. and $AC = 5 \text{ cm}$.

M is the midpoint of \overline{AC}

, then draw a circle M

with radius length 2.5 cm .

18 El-Beheira Governorate

Bandr Damnhour Educational Zone
Ismail El-Habrouk G.L.S.



Answer the following questions :

- 1 Choose the correct answer :

- (1) The shaded part of  represents
 ($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)



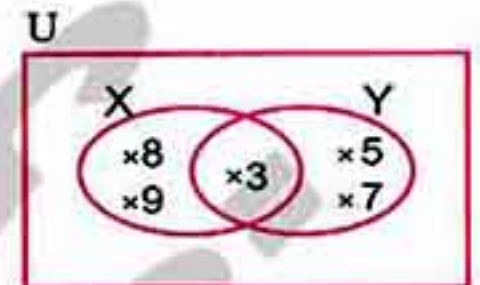
- (2) There are altitudes in the right-angled triangle.
(0 or 1 or 2 or 3)
- (3) $3.75 \times 1000 = \dots\dots\dots$ (0.375 or 0.0375 or 3750 or 37.5)
- (4) 2.4 dm. = cm. (0.24 or 24 or 240 or 2400)
- (5) $\{23\} \dots\dots\dots \{2, 3\}$ (\in or \notin or \subset or $\not\subset$)
- (6) $3 \frac{1}{8} \approx \dots\dots\dots$ (to the nearest hundredth)
(3.125 or 3.12 or 3.13 or 3.1)
- (7) If $\{5, 7\} = \{7, x + 2\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 6)
- (8) $24.551 \times 100 \square 22.541 \times 10$ ($>$ or $<$ or $=$)
- (9) Any chord passing through the centre of a circle is called a
(diameter or radius or chord)
- (10) $4 \frac{1}{8} \times 2 \frac{2}{3} = \dots\dots\dots$ (1 or 10 or 11 or 111)
- (11) $0.067 \times 1000 = \dots\dots\dots$ (6.7 or 67 or 0.067 or 670)
- (12) $1.7 \div 10 = \dots\dots\dots$ (17 or 0.17 or 1.7 or 0.017)
- (13) $2.125 \div 0.25 = \dots\dots\dots \div 25$ (212.5 or 21.25 or 2125 or 21250)
- (14) The number of subsets of set $\{5\}$ is (0 or 1 or 2 or 3)

2 Complete :

(15) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(16) From the opposite figure :

$$X - Y = \dots\dots\dots$$



(17) When tossing a coin once, the probability of getting a head =

(18) $4.6789 \approx \dots\dots\dots$ (to the nearest thousandth)

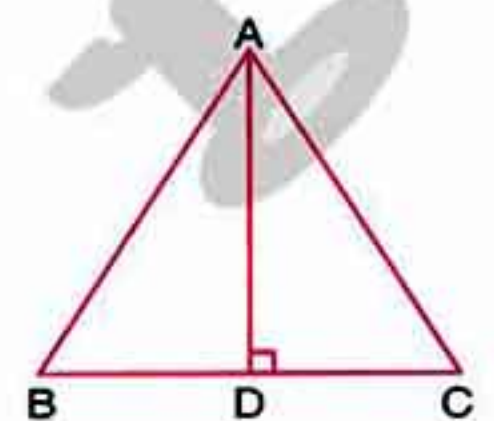
(19) From the opposite figure :

\overline{AD} is called

(20) If $\frac{4}{8} = \frac{x}{24}$, then $x = \dots\dots\dots$

(21) $\frac{1}{2} \div \frac{1}{12} = \dots\dots\dots$

(22) $\times \frac{4}{5} = 1$



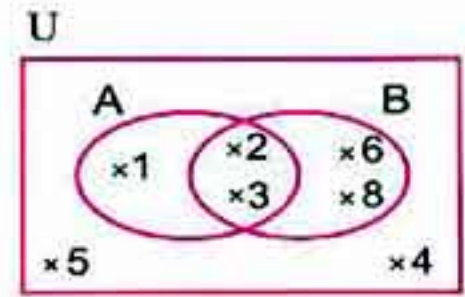


3 Answer the following :

(23) From the opposite Venn diagram , find :

[a] $A \cap B = \dots\dots\dots$

[b] $\bar{A} = \dots\dots\dots$



(24) A box contains identical balls where 5 are white, 9 are red and 6 are black. If one ball is chosen randomly, what is the probability that :

[a] The chosen ball is white ?

[b] The chosen ball is not black ?

(25) A truck can hold 125 boxes of oranges at a time. How many times are needed to deliver 4375 boxes by that truck ? (show steps)

(26) Draw ABC triangle in which
BC = 6 cm. and AB = AC = 5 cm.
Draw $\overline{AD} \perp \overline{BC}$ and find its length.

19 Beni Suef Governorate

Samela Educational Directorate
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) The probability of the impossible event =
(\emptyset or zero or 1 or $\frac{1}{3}$)

(2) The number of the altitudes of the triangle =
(0 or 1 or 2 or 3)

(3) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset or U)

(4) $46.432 \approx 46.43$ approximated to the nearest
(ten or 0.1 or 0.01 or 0.001)

(5) If $\{3, 4\} = \{1 + y, 3\}$, then $y = \dots\dots\dots$ (7 or 4 or 2 or 3)

(6) 40 days \approx weeks. (4 or 6 or 5 or 7)

(7) $17.947 \approx$ (to the nearest hundredth)
(17.948 or 17.95 or 17.90 or 17.94)





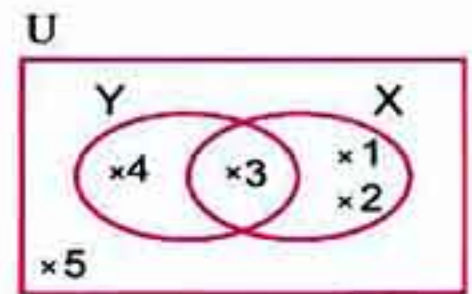
- (8) $\{2, 3\} \dots\dots\dots \{5, 7, 8\}$ (\in or \notin or \subset or $\not\subset$)
- (9) $95.3 \times 100 = \dots\dots\dots$ (0.953 or 953 or 9530 or 9.53)
- (10) As throwing a die once, then the probability of appearing a number less than 3 = $\dots\dots\dots$ ($\frac{1}{6}$ or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{2}{5}$)
- (11) $1.7 \div 10 = \dots\dots\dots$ (17 or 0.17 or 1.7 or 0.017)
- (12) 254 hours $\approx \dots\dots\dots$ days. (11 or 10 or 12 or 9)
- (13) The chord which passes through the centre of the circle is called $\dots\dots\dots$ (a diameter or a radius or a centre or a side)
- (14) $255 \div 25 = 2.55 \div \dots\dots\dots$ (2.5 or 0.25 or 25 or 2500)

2 Complete the following :

- (15) If $\{8, 6, 7\} = \{x, 8, 7\}$, then $x = \dots\dots\dots$
- (16) $7.64 \times 0.93 \approx \dots\dots\dots$ (to the nearest thousandth)
- (17) The midpoint of any diameter in a circle is $\dots\dots\dots$ of the circle.
- (18) $57.35 + 21.53 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest tenth)
- (19) $\{2, 3, 6, 12\} \cap$ the set of factors of the number 6 = $\dots\dots\dots$
- (20) If $6 \in \{3, 5, 2x\}$, then $x = \dots\dots\dots$

3 Answer the following :

- (21) $6.7898 - 4.247 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest thousandth)
- (22) $\frac{5}{7} \times 1 \frac{2}{5} = \dots\dots\dots$
- (23) $7885 \div 1000 = \dots\dots\dots$
- (24) $26272 \div 821 = \dots\dots\dots$
- (25) What is the number which is multiplied by 0.5 the product will be 33.86 ?
 $\dots\dots\dots$
- (26) Look at the opposite Venn diagram and find :
- [a] $X \cap Y = \dots\dots\dots$
- [b] $X \cup Y = \dots\dots\dots$
- [c] $X - Y = \dots\dots\dots$
- [d] $Y' = \dots\dots\dots$



- (27) Draw the triangle ABC in which
 $AB = BC = 6 \text{ cm.}$ and $m(\angle B) = 120^\circ$
 , then draw $\overline{AD} \perp \overline{BC}$ which intersects it at D
 , then find the length of \overline{AD}
- (28) A bag contains 3 white balls, 7 red balls and 5 yellow balls.
 All the balls are equal in size. If a ball is drawn randomly.
 [a] What is the probability that the drawn ball is white ?
 [b] What is the probability that the drawn ball is not red ?
- (29) A car covers equal distances in equal times. If this car covered
 24.73 km. in one hour, how many km. are covered in $2 \frac{1}{2}$ hours ?

- (30) A metal coin was thrown once, find the probability of appearing a head.

20 El-Menia Governorate

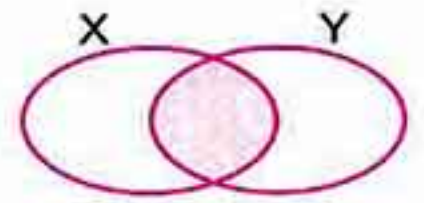
 El-Menia Official Language School
 Maths Department


Answer the following questions :

1 Choose the correct answer :

- (1) 5.421×100 52.41×10 ($>$ or $=$ or $<$ or \leq)
- (2) If $X \subset Y$, then $X \cap Y =$ (U or X or Y or \emptyset)
- (3) $\{3, 7\}$ $\{1, 3, 7\}$ (\in or \notin or \subset or $\not\subset$)
- (4) The chord which passes through the centre of a circle is called
 (diameter or radius or centre or side)
- (5) $A \cap \bar{A} =$ (A or U or \emptyset or \bar{A})
- (6) Every triangle has altitudes. (1 or 2 or 3 or 4)
- (7) $312 \div 10 =$ (3.12 or 0.312 or 31.2 or 3120)
- (8) When tossing a coin once, the probability of appearing a tail =
 (1 or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$)

(9) The shaded part in the opposite figure represents



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(10) The probability of sure event = (0 or $\frac{1}{2}$ or 1 or 2)

(11) $0.3 \times 0.2 =$ (0.6 or 0.06 or 0.006 or 6)

(12) $82.487 \approx 82.5$ to the nearest

(tenth or unit or hundredth or thousandth)

(13) $4 \times \frac{1}{4} =$ (1 or 4 or 8 or 16)

(14) $\frac{1}{2} \square \frac{1}{3}$ (< or > or = or \leq)

2 Complete each of the following :

(15) If $\frac{2}{5} = \frac{a}{15}$, then $a =$

(16) 3.002 kg. = gm.

(17) If $4 \in \{3, x, 5\}$, then $x =$

(18) $36.274 + 33.28 =$ \approx (to the nearest $\frac{1}{100}$)

(19) $\frac{4}{12} \div \frac{6}{12} =$

(20) A circle which its diameter length is 10 cm. , the length of its radius is cm.

(21) $4.5 \div 0.5 =$

(22) $12.5 - 3.75 \approx$ (to the nearest $\frac{1}{10}$)

3 Answer the following :

(23) Draw $\triangle ABC$ in which

$AB = 7$ cm. , $BC = CA = 6$ cm.

, then draw the line segment from C

that is perpendicular to \overline{AB}

and find its length.



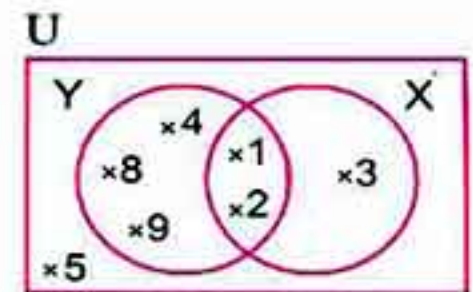
(24) From the opposite figure , find :

[a] $X \cup Y = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[d] $(X \cup Y)' = \dots\dots\dots$



(25) Arrange in an ascending order :

0.6 , $\frac{1}{2}$, 0.8 and $\frac{3}{4}$

The order is : , and

(26) A box contains 5 white balls, 9 red balls and 6 black balls , all the balls are identical and equal size, if a ball is drawn randomly , what is the probability that the drawn :

[a] White ?

[b] Red ?



21 Souhag Governorate

Maths Supervision

Answer the following questions :

1 Choose the correct answer :

(1) $2 \dots\dots\dots \{5, 2, 52\}$ (\in or \notin or \subset or $\not\subset$)

(2) $\frac{1}{8} \approx \dots\dots\dots$ (to the nearest hundredth)
(0.125 or 0.12 or 0.13 or 1.0)

(3) $806.7 \div 100 = \dots\dots\dots$ (80.67 or 8.067 or 80670 or 8067)

(4) $98.7 \times 1000 = \dots\dots\dots$ (987.0 or 0.987 or 98700 or 9870)

(5) $\emptyset \dots\dots\dots \{0\}$ (\in or \notin or \subset or $\not\subset$)

(6) $\frac{1}{2} \square \frac{1}{3}$ ($<$ or $>$ or $=$ or \leq)

(7) $3.36 \text{ km.} = \dots\dots\dots \text{ m.}$ (3.36 or 33.6 or 336 or 3360)

(8) If $6 \in \{3, 5, 2x\}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)

(9) $\frac{5}{6} + \frac{2}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{7}{12}$ or $\frac{7}{6}$ or $\frac{3}{7}$)

(10) $9 \frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(11) A circle with a diameter length 8 cm. , then the length of its radius
= cm. (4 or 5 or 6 or 16)





- (12) The number of the altitudes in any triangle =
 (1 or 2 or 3 or 0)
- (13) 48.2×3.7 4.82×37
 (< or > or = or ≠)
- (14) The number $83.7694 \approx 83.77$ to the nearest
 ($\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$ or $\frac{1}{10000}$)

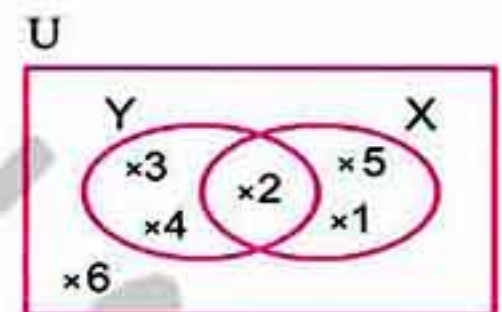
2 Complete each of the following :

- (15) $\times 2 \frac{1}{5} = 1$
- (16) The longest chord in a circle is called
- (17) The probability of the sure event =
- (18) $3 \frac{1}{4} \times \frac{2}{3} =$
- (19) The chord which passes through the centre of the circle is called
- (20) $478.347 - 134.834 =$
- (21) $\{1, 2\} \cup \{2, 3, 4\} =$
- (22) $\{5, 6\} \cap \{4, 5\} =$

3 Answer the following questions :

- (23) Using the opposite Venn diagram , find :

- [a] $X \cup Y =$
- [b] $X \cap Y =$
- [c] $\bar{X} =$
- [d] $X - Y =$



- (24) If the price of a piece of sweet is 2.25 pounds, what is the price of 25 pieces of the same kind ?

- (25) Draw the triangle ABC where
 $AB = 4$ cm. , $BC = 5$ cm.
 and $CA = 6$ cm.

- (26) A box contains 5 white balls, 4 blue balls and 2 red balls, find the probability of getting :

[a] A blue ball =

[b] A red ball =

22 Qena Governorate

 Qaft Educational Zone
 Qaft Language School


Answer the following questions :

1 Complete :

- (1) $4.526 \times 100 = \dots\dots\dots$
- (2) The longest chord in the circle is called $\dots\dots\dots$
- (3) $\frac{3}{7} \div \frac{1}{2} = \dots\dots\dots$
- (4) $62.345 + 15.632 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest hundredth)
- (5) $4.32 \times 3.6 = \dots\dots\dots$
- (6) If $A \subset B$, then $A \cup B = \dots\dots\dots$
- (7) $4.8 \div 10 = \dots\dots\dots$
- (8) The probability of the impossible event = $\dots\dots\dots$
- (9) $5 \frac{2}{3} \times \frac{3}{17} = \dots\dots\dots$
- (10) The number of altitudes of a triangle = $\dots\dots\dots$

2 Choose the correct answer :

- (11) $\frac{1}{3} \times 3 = \dots\dots\dots$ (3 or $\frac{1}{9}$ or 1 or 6)
- (12) $0.06 \times 0.3 = \dots\dots\dots$ (18 or 0.018 or 0.18 or 0.09)
- (13) $\{23\} \dots\dots\dots \{2, 3\}$ (\in or \notin or \subset or $\not\subset$)
- (14) A letter is selected randomly from the word "Ahmed" , the probability of selecting the letter A is $\dots\dots\dots$ ($\frac{1}{5}$ or $\frac{2}{5}$ or $\frac{3}{5}$ or $\frac{4}{5}$)
- (15) $62.38 \div 10 = \dots\dots\dots$ (623.8 or 62380 or 6.238 or 6238)
- (16) $X \cup \bar{X} = \dots\dots\dots$ (X or \bar{X} or U or \bar{U})
- (17) $\frac{4}{7} \square \frac{5}{9}$ (< or = or >)
- (18) If $7 \in \{3, 5, x\}$, then $x = \dots\dots\dots$ (3 or 5 or 7 or 8)
- (19) 4 $\dots\dots\dots$ the set of digits of the number 3456 (\in or \notin or \subset or $\not\subset$)
- (20) The set of even numbers between 6 and 34, then its type is $\dots\dots\dots$ (finite or infinite or empty)



- (21) A circle of diameter length 6 cm. , then its radius length = cm.
(6 or 12 or 3 or 2)
- (22) A bag has 5 red balls and 3 white balls , if a ball is drawn randomly , then the probability that the drawn ball is white =
($\frac{3}{5}$ or $\frac{3}{8}$ or $\frac{5}{8}$ or $\frac{5}{3}$)
- (23) $0.74 \times 1000 = \dots\dots\dots$ (740 or 74 or 74000 or 0.074)
- (24) If $\{3, 6, x\} = \{6, 2, 3\}$, then $x = \dots\dots\dots$ (3 or 6 or 9 or 2)
- (25) $36.36 \div 9 = \dots\dots\dots$ (44 or 4.4 or 40.4 or 4.04)
- (26) If $A \subset B$, then $A \cap B = \dots\dots\dots$ (A or \bar{A} or B or \bar{B})

3 Answer the following :

- (27) Draw the circle M of radius length 4 cm.
 , then draw the diameter \overline{AB}
 and the chord $\overline{AC} = 6$ cm.

- (28) Find the result of :
 $24.581 \div 5.23 = \dots\dots\dots$

23 Luxor Governorate

 Luxor Educational Directorate
 Maths Department


Answer the following questions :

1 Choose the correct answer :

- (1) If $7 \in \{3, x, 5\}$, then $x = \dots\dots\dots$ (3 or 8 or 5 or 7)
- (2) $76.518 \approx \dots\dots\dots$ (to the nearest hundredth)
(76.52 or 765.2 or 76.5 or 7652)
- (3) $\frac{3}{4} \square \frac{2}{3}$ (> or < or =)
- (4) $5.748 \times 100 = \dots\dots\dots$ (57.48 or 0.5748 or 574.8 or 5748)
- (5) The longest chord in the circle is called
(radius or diameter or chord or centre)
- (6) $\emptyset \dots\dots\dots \{2, 5\}$ (\in or \notin or \subset or $\not\subset$)





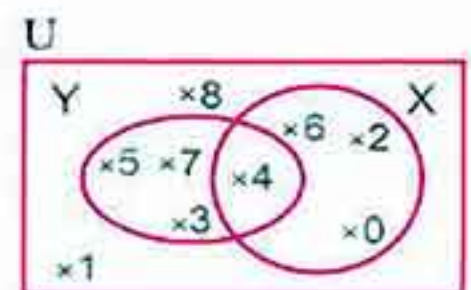
- (7) $\frac{4}{5} \times \frac{1}{3} = \dots\dots\dots$ ($\frac{1}{2}$ or $\frac{12}{5}$ or $\frac{4}{15}$ or $\frac{5}{8}$)
- (8) $537.1 \div 10 = \dots\dots\dots$ (5371 or 53.71 or 5.371 or 0.5371)
- (9) If $X = \{2, 3, 5\}$ and $Y = \{4, 3, 6\}$, then $X \cap Y = \dots\dots\dots$
($\{5\}$ or $\{5, 2\}$ or $\{3\}$ or $\{5, 6\}$)
- (10) Any triangle has $\dots\dots\dots$ altitudes. (5 or 2 or 3 or 1)
- (11) $0.1 \times 0.3 = \dots\dots\dots$ (0.4 or 0.3 or 0.13 or 0.03)
- (12) $5 \dots\dots\dots \{1, 5, 3, 7\}$ (\in or \notin or \subset or $\not\subset$)
- (13) $\frac{2}{5} \div \frac{1}{4} = \dots\dots\dots$ ($\frac{8}{5}$ or $\frac{6}{5}$ or $\frac{5}{8}$ or $\frac{2}{3}$)
- (14) $\{2, 5, 6\} - \{6, 5, 3\} = \dots\dots\dots$ ($\{5\}$ or $\{5, 6\}$ or $\{3\}$ or $\{2\}$)

2 Complete the following :

- (15) $15.3689 - 12.1564 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest thousandth)
- (16) The altitudes of the acute-angled triangle intersect $\dots\dots\dots$ the triangle.
- (17) The probability of getting a head when tossing a coin once is $\dots\dots\dots$
- (18) $16.78 \div 100 = \dots\dots\dots$
- (19) If $X = \{2, 7, 5\}$ and $Y = \{3\}$, then $X \cup Y = \dots\dots\dots$
- (20) A circle its diameter length is 8 cm. , then its radius length is $\dots\dots\dots$ cm.
- (21) $3 \times 0.4 = \dots\dots\dots$
- (22) $\{3, 5, 8\} - \{1, 5, 3, 6, 8\} = \dots\dots\dots$

3 Answer the following :

- (23) $3.148 + 5.231 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest hundredth)
- (24) If a die is tossed once, find the probability of :
[a] Getting an even number = $\dots\dots\dots$
[b] Getting a number greater than 7 = $\dots\dots\dots$
- (25) Use the opposite Venn diagram to find :
[a] $Y \cap X = \dots\dots\dots$
[b] $Y^c = \dots\dots\dots$



- (26) Draw the equilateral triangle ABC where each side is equal to 3 cm. , and draw an altitude from the vertex C perpendicular to \overline{AB}

24 Aswan Governorate

 Aswan Educational Directorate
 M. M. Yaqoub Language School


Answer the following questions :

1 Choose the correct answer :

- (1) $4.763 \approx \dots\dots\dots$ (to the nearest hundredth)
 (4.77 or 4.7 or 4.76 or 4.764)
- (2) $X \cap X^c = \dots\dots\dots$
 (X or X^c or U or \emptyset)
- (3) $\frac{5}{7} \square \frac{5}{6}$
 ($<$ or $=$ or $>$ or \geq)
- (4) $9.82 \times 1000 = \dots\dots\dots$
 (98.2 or 0.982 or 9820 or 982)
- (5) $1.8 \times 5 = \dots\dots\dots$
 (9 or 9.5 or 1.85 or 18.5)
- (6) $\frac{1}{4} \times \frac{2}{3} = \dots\dots\dots$
 ($\frac{3}{8}$ or $\frac{1}{6}$ or $\frac{2}{7}$ or $\frac{3}{7}$)
- (7) $5.8 \div 10 = \dots\dots\dots$
 (5800 or 580 or 58 or 0.58)
- (8) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$
 (X or Y or \emptyset or $X \cup Y$)
- (9) $\frac{1}{2} \div \frac{1}{4} = \dots\dots\dots$
 ($\frac{1}{8}$ or 4 or 2 or 8)
- (10) $\{35\} \dots\dots\dots \{1, 3, 5\}$
 (\in or \notin or \subset or $\not\subset$)
- (11) If $\{4, 7\} = \{x, 4\}$, then $x = \dots\dots\dots$
 (4 or 7 or 3 or 47)
- (12) A circle with diameter length 6 cm. , then its radius length = $\dots\dots\dots$ cm.
 (6 or 4 or 12 or 3)
- (13) If $5 \in \{3, 4 + x\}$, then $x = \dots\dots\dots$
 (1 or 3 or 4 or 5)
- (14) If $\frac{2}{5} = \frac{x}{10}$, then $x = \dots\dots\dots$
 (2 or 4 or 5 or 8)

2 Complete :

- (15) The longest chord in a circle is called $\dots\dots\dots$
- (16) $\{2, 5\} \cup \{7, 5\} = \dots\dots\dots$



- (17) When tossing a die once, the probability of getting a number 5 is
- (18) $\frac{3}{4} \div \frac{3}{8} = \dots\dots\dots$
- (19) The number of altitudes of any triangle =
- (20) The probability of the certain event =
- (21) The sum of the measures of the interior angles of any triangle = °
- (22) 0.35 kg. = gm.

3 Answer the following :

- (23) A box contains 3 white balls, 7 red balls and 5 yellow balls, all of equal size, one ball is chosen randomly. Find the probability of choosing :

[a] A white ball =

[b] Not yellow ball =

- (24) Draw the equilateral triangle ABC whose side length = 5 cm. , then draw $\overline{CD} \perp \overline{AB}$

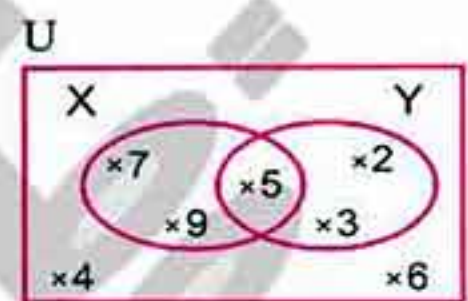
- (25) If the price of a piece of sweet is 2.25 pounds, what is the price of 5 pieces of the same kind ?

The price = = pounds.

- (26) From the opposite figure , find :

[a] $\bar{X} = \dots\dots\dots$

[b] $Y - X = \dots\dots\dots$



25 South Sinai Governorate

Sinai Educational Zone
Maths Inspection



Answer the following questions :

1 Choose the correct answer :

- (1) $98.7 \times 100 = \dots\dots\dots$ (9.87 or 987 or 9870 or 0.987)



- (2) $736.592 \approx 736.59$ approximated to the nearest
 (unit **or** tenth **or** hundredth **or** thousandth)
- (3) If $\{2, 3, 4\} = \{3, 4, x\}$, then $x = \dots\dots\dots$ (1 **or** 2 **or** 3 **or** 4)
- (4) Any chord passes through the centre of the circle is called a
 (straight line **or** diameter **or** radius **or** ray)
- (5) $11664 \div 216 = \dots\dots\dots$ (50 **or** 54 **or** 58 **or** 62)
- (6) $\{5\} - \{1, 2, 5\} = \dots\dots\dots$ ($\{5\}$ **or** $\{1\}$ **or** $\{1, 2\}$ **or** \emptyset)
- (7) $37.4289 - 14.081 \approx \dots\dots\dots$ (to the nearest thousandth)
 (23.349 **or** 23.350 **or** 23.348 **or** 23.248)
- (8) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X **or** $\{0\}$ **or** Y **or** \emptyset)
- (9) The number of altitudes of any triangle is
 (1 **or** 2 **or** 3 **or** 4)
- (10) $\{1, 7\} \dots\dots\dots \{0, 1, 2, 3, 4, \dots\}$ (\in **or** \notin **or** \subset **or** $\not\subset$)
- (11) $75.3 \div 100 = \dots\dots\dots$ (7530 **or** 753 **or** 7.53 **or** 0.753)
- (12) $\frac{1}{2} \square \frac{1}{3}$ (\leq **or** $<$ **or** $>$ **or** $=$)
- (13) $5.45 \div 0.5 = \dots\dots\dots$ (1.9 **or** 19 **or** 1.09 **or** 10.9)
- (14) The number of subsets of the set $\{5\}$ is
 (0 **or** 1 **or** 2 **or** 3)

2 Complete the following :

- (15) 2.4 dm. = cm.
- (16) $\frac{1}{3} \times \frac{2}{5} = \dots\dots\dots$
- (17) A circle whose diameter length is 4 cm. , then the length of its radius is cm.
- (18) $\{1, 2, 4\} - \{2, 4, 6\} = \dots\dots\dots$
- (19) If $\frac{b}{8} = \frac{15}{24}$, then $b = \dots\dots\dots$
- (20) The longest chord in a circle is called
- (21) If $X = \{1, 2, 5, 7\}$ and $Y = \{1, 5, 3\}$, then $X \cap Y = \dots\dots\dots$
- (22) The probability of the certain event =



3 Answer the following :

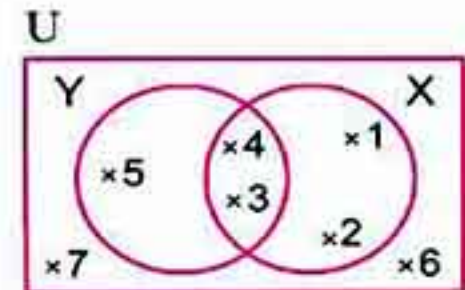
(23) If the price of one metre of cloth is 6.45 pounds, then what is the price of 2.4 metres of cloth ?

The price =

(24) By using the opposite Venn diagram, find the following sets by listing method :

[a] $X \cap Y = \dots\dots\dots$

[b] $Y^c = \dots\dots\dots$



(25) Draw the triangle XYZ in which $XY = YZ = 7$ cm. and $XZ = 4$ cm.

(26) A bag contains 5 white balls , 9 red balls and 6 black balls identically , a ball is drawn blindly , then what is the probability that the drawn ball is white ?

Ra Nia SaYed





Guide Answers of Final Examinations

Note : The drawn lengths are not real.

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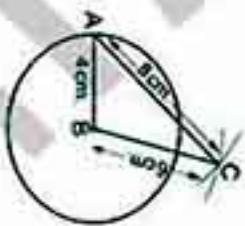
Answers of Models of the School Book

Model 1

- 1 (1) right-angled triangle (2) 11
(3) 3 (4) 3750
(5) > (6) $X \cap Y$
(7) > (8) $\frac{3}{2}$
(9) 6 (10) diameter
(11) \neq (12) 100
(13) \in (14) >

- 2 (15) [a] MB, MC [b] \overline{AB}
(16) $\frac{2}{3}$ (17) 1 (18) 5
(19) 24 (20) {6, 8}
(21) 0.384 (22) $\frac{9}{50}$

3 (23)



$$(24) \frac{40}{100} = \frac{2}{5}$$

(25) The order is : $6\frac{1}{4} \cdot 5\frac{3}{4} \cdot 5\frac{1}{2}$ and $5\frac{3}{2}$

(26) The side length of the square = $3 + 3$
= 6 cm.

The perimeter of the square = 6×4
= 24 cm.

Model 2

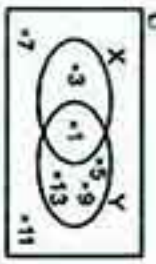
- 1 (1) 3360 (2) 9.1
(3) $\frac{5}{7}$ (4) >
(5) 0.111 (6) =
(7) 0.3 (8) $X \cup Y$
(9) \neq (10) 5

Answers of Final Examinations

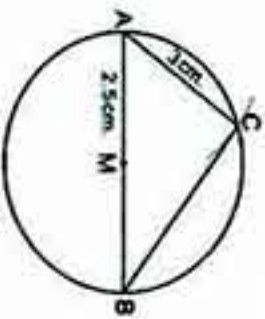
- (11) > (12) 3
(13) $\frac{3}{8}$ (14) $\frac{1}{2}$

- 2 (15) $\frac{2}{10}$ (16) X
(17) \overline{AB} (18) $X - Y$
(19) 2 (20) 4,680
(21) $\frac{4}{9}$ (22) 1000

3 (23) $X \cap Y = \{1\}$



(24)



The length of $\overline{BC} = 4$ cm.

$$(25) \frac{5}{20} = \frac{1}{4}$$

(26) The area of the rectangle = 4.1×3.5
= 14.35 cm²

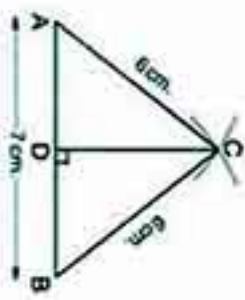
Model for the special needs students

- 1 (1) $\frac{1}{4}$ (2) 3
(3) 31.2 (4) $X \cup Y$
(5) diameter (6) =
(7) 3 (8) \subset
(9) $\frac{1}{2}$ (10) 0.5
- 2 (1) 4.9 (2) $\frac{1}{6}$
(3) 12.1 (4) 2
(5) {1, 5}
- 3 (1) $X \cap Y$ (2) >
(3) 4.3 (4) $\frac{1}{2}$
(5) altitude

Answers of Schools' Examinations

1 Cairo

- (1) 425 (2) 4 (3) 3
(4) 0.01 (5) 3 (6) $\frac{5}{7}$
(7) > (8) $\frac{2}{3}$ (9) X
(10) \notin (11) \subset (12) diameter
(13) $\frac{3}{5}$ (14) 2
- (15) 10 (16) 136.454 , 136.5
(17) 5 (18) outside (19) 9
(20) radius (21) zero (22) 72
- (23) [a] $\frac{8}{20} = \frac{2}{5}$ [b] $\frac{0}{20} = 0$
[c] $\frac{13}{20}$ [d] $\frac{15}{20} = \frac{3}{4}$
(24) [a] {3} [b] {1, 2, 3, 4}
[c] {1, 2} [d] {1, 2, 5}
(25) [a] 28 [b] 0.714
(26)



The length of $CD = 4.9$ cm.

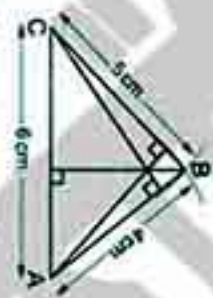
2 Cairo

- (1) 3 (2) \notin (3) 3
(4) a diameter (5) \notin (6) $\frac{7}{5}$
(7) 9.1 (8) Y-X (9) 11
(10) > (11) = (12) 50
- (13) X (14) {3, 5} (15) 17
(16) 10 (17) $\frac{2}{10}$ (18) outside it
(19) 616 (20) 5.4 (21) 0.27
(22) 5 cm.
- (23) [a] $\frac{5}{15} = \frac{1}{3}$ [b] $\frac{10}{15} = \frac{2}{3}$
(24) The cost = $6.45 \times 2.4 =$ L.E. 15.48

(25)



(26)

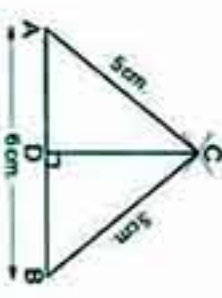


ΔABC is a scalene triangle.

3 Cairo

- (1) 69.554 , 69.55 (2) 4 (3) 3
(4) {1, 3, 4, 5} (5) 7
(6) a diameter (7) 12.3 (8) 0
- (9) 3 (10) $2 \times r$ (11) X
(12) \subset (13) \in (14) an infinite
(15) \subset (16) 2 (17) 1.5
(18) < (19) 0.24 (20) 7.105
(21) $\frac{1}{10}$ (22) =
- (23) [a] $\frac{6}{12} = \frac{1}{2}$ [b] $\frac{9}{12} = \frac{3}{4}$
(24) [a] {1, 2, 3, 5, 9} [b] {3}
[c] {5, 9} [d] {4, 6, 5, 9}

(25)



(26) [a] 17 [b] 2

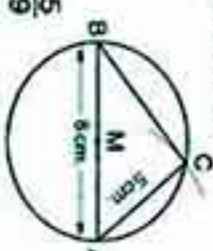
4 Cairo

- (1) $\frac{7}{5}$ (2) {5} (3) 108.083 , 108.08
(4) 5 (5) X (6) a diameter
(7) zero (8) the vertex of the right angle
(9) 1 (10) 85.25 m²

Answers of Final Examinations

6 Giza

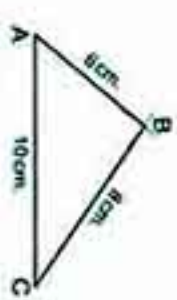
- (1) 4 (2) 0.65 (3) \overline{AB}
(4) 12.25 (5) X (6) 138.33
(7) 7 (8) 5 (9) 10
(10) $\frac{2}{3}$ (11) 30 (12) 2
(13) diameter (14) $\frac{2}{5}$
- (15) 0 (16) 21.75 (17) 0.8597
(18) \emptyset (19) {4} (20) 3
(21) 180 (22) 6250
- (23) [a] {1} [b] {3, 4, 5}
(24) [a] The length of $\overline{BC} = 6.2$ cm.
[b] $m(\angle C) = 90^\circ$



- (25) [a] $\frac{6}{19}$ [b] $\frac{15}{19}$
(26) The price = $39.8 \times 8.5 = 338.3 =$ L.E. 338

7 Alexandria

- (1) 18 (2) \notin (3) \subset
(4) 3 (5) 4750 (6) $\frac{1}{2}$
(7) 3 (8) 36.76 (9) Y-X
(10) < (11) 1 (12) A
(13) 8 (14) <
- (15) equal in length (16) 6
(17) outside (18) {2} (19) 64.14
(20) 8.9642 (21) 1.5525 (22) 2
- (23) [a] {6, 8} [b] {2, 3, 6, 8, 4, 5}
[c] {4, 5} [d] {3, 2, 1, 7}
(24) [a] $\frac{5}{11}$ [b] $\frac{11}{11} = 1$
(25) [a] a diameter [b] a chord
(26)



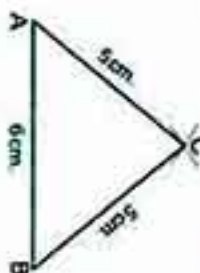
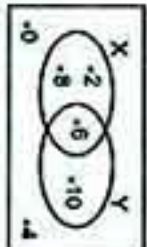
- [a] $m(\angle B) = 90^\circ$
[b] ΔABC is a right-angled triangle.

8 Alexandria

- 1 (1) 0.8482 (2) $\frac{2}{3}$ (3) 865.7
(4) < (5) 33510 (6) \subset
(7) 8 (8) an acute (9) \notin
(10) 6.5 (11) \emptyset (12) 3
(13) 3.8 (14) >

- 2 (15) the intersection (16) $\frac{1}{2}$
(17) 42.25 (18) 20 (19) inside
(20) $\{10, 12\}$ (21) $\frac{8}{5} = 1\frac{1}{5}$ (22) a chord

- 3 (23) $X \cap Y = \{6\}$
 $X = \{0, 4, 10\}$
 $Y = \{2, 8, 0, 4\}$
(24) The order is: $\frac{3}{4}, 0.45, \frac{3}{8}$ and 0.225
(25) [a] $350 = \frac{7}{12}$ [b] $\frac{250}{600} = \frac{5}{12}$
(26)



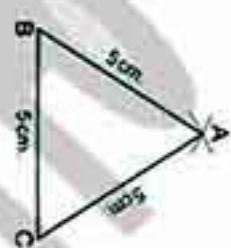
9 El-Kalyoubia

- 1 (1) \in (2) 3750 (3) 0.25
(4) 9.6 (5) 6 (6) 1
(7) = (8) \subset (9) 52.91
(10) \emptyset (11) $\frac{7}{10}$ (12) 1
(13) 3 (14) 6

- 2 (15) $\{3, 5, 7\}$ (16) 0.528 (17) $\frac{1}{6}$
(18) 3002 (19) 3.1 (20) 28

- 3 (21) [a] $\{1, 2, 3, 4, 5\}$ [b] $\{3, 4, 5\}$
(22) 8
(23) $\emptyset, \{3\}, \{7\}$ and $\{3, 7\}$
(24) $X \cup Y = \{3, 4, 5, 6\}$
 $X - Y = \{3, 4\}$
(25) $\frac{3}{10}$

(26)

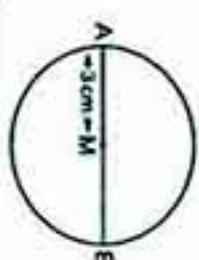


10 El-Sharkia

- 1 (1) 375 (2) > (3) \subset
(4) $\frac{1}{2}$ (5) 1 (6) 3
(7) \emptyset (8) 3360 (9) 6
(10) 3 (11) diameter (12) 12.1
(13) $X \cap Y$ (14) 31.2

- 2 (15) X (16) 1 (17) 1.68
(18) 4.68 (19) 5 (20) $\frac{4}{5}$
(21) 2 (22) 2, 1

- 3 (23) The weight = $5904 + 492 = 12$ kg.
(24) [a] $\{1, 2, 4, 5\}$ [b] $\{5\}$
[c] $\{1, 2\}$ [d] $\{4, 3, 6\}$
(25) $\frac{5}{15} = \frac{1}{3}$
(26)



AB = 6 cm.

11 El-Monofia

- 1 (1) 6 (2) 4 (3) $\frac{1}{6}$
(4) \emptyset (5) 276.533 (6) $\frac{2}{9}$
(7) 3 (8) \subset (9) \notin
(10) 5 (11) 6 (12) outside
(13) 6 (14) 10.9

- 2 (15) 100.00 (16) 5400 (17) $\frac{1}{12}$
(18) Y, X (19) 3
(20) diameter (21) 101 (22) 3750

Answers of Final Examinations

- 3 (23) The order is: $\frac{1}{4}, 0.4, \frac{1}{2}, \frac{3}{4}$ and 0.8
(24) $A \cap B = \{2, 3\} = B$
 $A \cup B = \{1, 6, 2, 3\} = A$
(25)



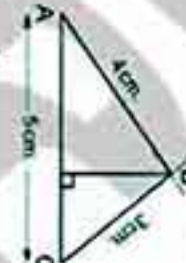
- (26) [a] $\frac{8}{20} = \frac{2}{5}$ [b] $\frac{0}{20} = 0$

12 El-Gharbia

- 1 (1) = (2) 0.357 (3) diameter
(4) \subset (5) $\frac{3}{4}$ (6) \emptyset
(7) 25 (8) > (9) 24.64
(10) $\{7\}$ (11) A (12) 3
(13) 5 (14) Y

- 2 (15) 6 (16) 3560 (17) $\{2\}$
(18) 10 (19) 0 (20) 1
(21) 3 (22) 10.9

- 3 (23) The price of 3 metres = 27.5×3
= 82.5 pounds.
(24) [a] $\{5\}$ [b] $\{1, 2, 4, 5\}$
[c] $\{1, 2\}$ [d] $\{4, 3, 6\}$
(25)



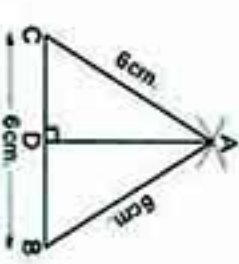
- (26) [a] $\frac{3}{6} = \frac{1}{2}$ [b] $\frac{6}{6} = 1$
[c] $\frac{1}{6}$ [d] $\frac{4}{6} = \frac{2}{3}$

13 El-Dakahlia

- 1 (1) 1.5 (2) 16 (3) 0.5 (4) \subset
(5) 0.2 (6) 6 (7) 10
2 (8) 1 (9) X (10) 3 (11) 5
(12) 0.1 (13) 0.15

- 3 (14) X (15) 6 (16) $\frac{7}{8}$
(17) radius (18) \subset (19) \emptyset
(20) <

- 4 (21) [a] $\{1, 2, 3, 6, 7\}$ [b] $\{2\}$
[c] $\{6, 7\}$ [d] $\{4, 5\}$
(22) [a] $\frac{3}{12} = \frac{1}{4}$ [b] $\frac{9}{12} = \frac{3}{4}$
[c] $\frac{7}{12}$ [d] $\frac{0}{12} = 0$
(23) 2.4
(24) The total price = 35×7.5
= 262.5 = 263 pounds.



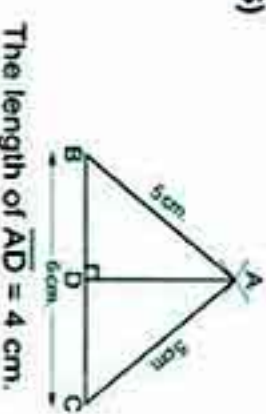
- (25) [a]
[b] The perimeter of $\triangle ABC = 6 + 6 + 6$
= 18 cm.

14 Ismailia

- 1 (1) < (2) 1 (3) 3
(4) \subset (5) \checkmark (6) X
(7) 3 (8) 7 (9) $\frac{1}{5}$
(10) 3 (11) 6800 (12) 10
(13) $\frac{2}{3}$ (14) 8

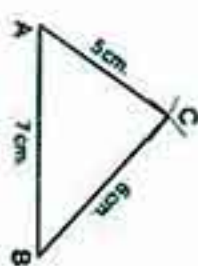
- 2 (15) 2830 (16) 6.373 (17) 0.736
(18) 6.38 (19) $\{0, 2\}$ (20) $\frac{7}{9}$
(21) a diameter (22) a radius

- 3 (23) $\frac{1}{6}$
(24) [a] $\{6, 8\}$ [b] $\{2\}$
(25) [a] $\frac{3}{10}$ [b] $\frac{7}{10}$
(26)



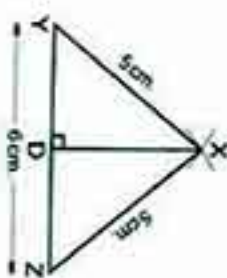
15 Suez

- 1 (1) = (2) 6 (3) \notin
(4) 3 (5) diameter (6) 5
(7) 18, 17 (8) 276.53 (9) γ
(10) 4 (11) 1 (12) 0.25
(13) 6 (14) $\gamma - X$
- 2 (15) 3750 (16) 18 (17) {4}
(18) {1, 3, 5} (19) 6
(20) 40 (21) 5 (22) $\frac{1}{2}$
- 3 (23) The order is : 3, 125, $3\frac{1}{4}$, 3.3 and $3\frac{1}{2}$
(24) [a] {3} [b] {3, 4, 5}
(25) [a] $\frac{0}{6} = 0$ [b] $\frac{1}{6}$
(26)



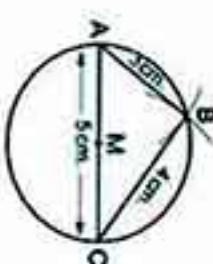
16 Damietta

- 1 (1) 25, 675 (2) 3526, 94 (3) an infinite
(4) a diameter (5) > (6) 11
(7) 5 (8) 0.25 (9) 0.02321
(10) 0.027 (11) \subset (12) \in
(13) 4 (14) outside
- 2 (15) 1 (16) $\frac{5}{4}$ (17) 0.63
(18) $\frac{1}{4}$ (19) 4 (20) {1, 2}
(21) 3 (22) 3 cm.
- 3 (23) The weight = 5405 + 235 = 23 kg.
(24) [a] {7, 8} [b] {5, 6}
(25) [a] $\frac{5}{20} = \frac{1}{4}$ [b] $\frac{15}{20} = \frac{3}{4}$
(26)



17 Kafr El-Sheikh

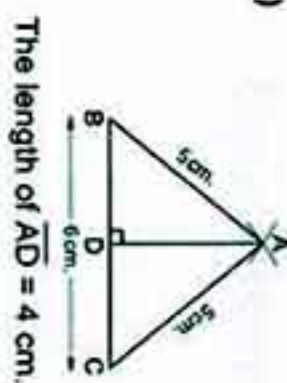
- 1 (1) 0.27 (2) 1 (3) 24
(4) 4 (5) $\frac{3}{2}$ (6) a diameter
(7) 9 (8) \emptyset
- 2 (9) 11 (10) \notin (11) 3 (12) $\frac{3}{8}$
(13) > (14) 8 (15) \subset (16) 3
(17) 6 (18) \notin (19) 0.5 (20) 24
(21) 160 (22) 3
- 3 (23) The width = 10.25 + 4.1 = 2.5 m.
The perimeter = (4.1 + 2.5) \times 2 = 13.2 m.
(24) [a] {1, 5, 8, 4, 6} [b] {5, 8}
[c] {6} [d] {1, 3}
(25) The order is : $\frac{2}{5}$, 0.6, $\frac{3}{4}$ and 0.8
(26)



18 El-Beheira

- 1 (1) $X \cap Y$ (2) 3 (3) 3750
(4) 24 (5) \notin (6) 3.13
(7) 3 (8) > (9) diameter
(10) 11 (11) 67 (12) 0.17
(13) 212.5 (14) 2
- 2 (15) X (16) {8, 9} (17) $\frac{1}{2}$
(18) 4, 679 (19) an altitude of $\triangle ABC$
(20) 12 (21) 6 (22) $\frac{5}{4}$
- 3 (23) [a] {2, 3} [b] {6, 8, 4, 5}
(24) [a] $\frac{5}{20} = \frac{1}{4}$ [b] $\frac{14}{20} = \frac{7}{10}$
(25) The number of times = 4375 + 125
= 35 times.

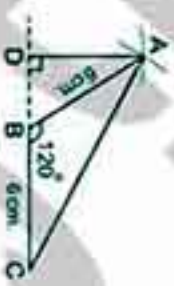
(26)



The length of $\overline{AD} = 4$ cm.

19 Beni Suef

- 1 (1) zero (2) 3 (3) X
(4) 0.01 (5) 3 (6) 6
(7) 17.95 (8) \notin (9) 9530
(10) $\frac{1}{3}$ (11) 0.17 (12) 11
(13) a diameter (14) 0.25
- 2 (15) 6 (16) 7.105
(17) the centre (18) 78.88, 78.9
(19) {2, 3, 6} (20) 3
- 3 (21) 2.5428, 2.543 (22) 1 (23) 7.885
(24) 32
(25) The number = 33.86 + 0.5 = 67.72
(26) [a] {3} [b] {1, 2, 3, 4}
[c] {1, 2} [d] {1, 2, 5}
(27)



The length of $\overline{AD} = 5.2$ cm.

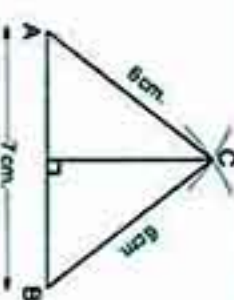
- (28) [a] $\frac{3}{15} = \frac{1}{5}$ [b] $\frac{8}{15}$
(29) The covered distance = 24.73 \times 2 $\frac{1}{2}$
= 61.825 km.
(30) $\frac{1}{2}$

20 El-Menia

- 1 (1) > (2) X (3) \subset
(4) diameter (5) \emptyset (6) 3
(7) 31.2 (8) $\frac{1}{2}$ (9) $X \cap Y$
(10) 1 (11) 0.06 (12) tenth
(13) 1 (14) >

- 2 (15) 6 (16) 3002 (17) 4
(18) 69,554, 69.55 (19) $\frac{2}{3}$
(20) 5 (21) 9 (22) 8.8

3 (23)



The length of the altitude from C = 4.9 cm.

- (24) [a] {1, 2, 3, 4, 8, 9}
[b] {1, 2} [c] {3} [d] {5}
(25) The order is : $\frac{1}{2}$, 0.6, $\frac{3}{4}$ and 0.8
(26) [a] $\frac{5}{20} = \frac{1}{4}$ [b] $\frac{9}{20}$

21 Souhag

- 1 (1) \in (2) 0.13 (3) 8.067
(4) 98700 (5) \subset (6) >
(7) 3360 (8) 3 (9) $\frac{7}{6}$
(10) 9.1 (11) 4 (12) 3
(13) = (14) $\frac{1}{100}$
- 2 (15) $\frac{5}{11}$ (16) a diameter (17) 1
(18) $\frac{13}{6}$ (19) a diameter (20) 343, 513
(21) {1, 2, 3, 4} (22) {5}
- 3 (23) [a] {1, 2, 3, 4, 5} [b] {2}
[c] {3, 4, 6} [d] {5, 1}

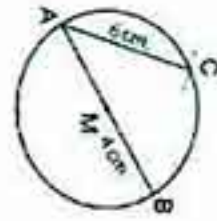
- (24) The price = 2.25 \times 25 = 56.25 pounds.
(25)



- (26) [a] $\frac{4}{11}$ [b] $\frac{2}{11}$

22 Qena

- 1 (1) 452.6 (2) a diameter
(3) $\frac{6}{7}$ (4) 77.977, 77.98
(5) 15.552 (6) B (7) 0.48
(8) 0 (9) 1 (10) 3
- 2 (11) 1 (12) 0.018 (13) $\frac{1}{2}$
(14) $\frac{1}{5}$ (15) 6.238 (16) U
(17) > (18) 7 (19) \subseteq
(20) finite (21) 3 (22) $\frac{3}{8}$
(23) 740 (24) 2 (25) 4.04
(26) A



(28) 4.7

23 Luxor

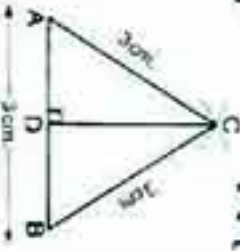
- 1 (1) 7 (2) 76.52 (3) >
(4) 574.8 (5) diameter (6) \subset
(7) $\frac{4}{15}$ (8) 53.71 (9) {3}
(10) 3 (11) 0.03 (12) \in
(13) $\frac{8}{5}$ (14) {2}

2 (15) 3.2125, 3.213

- (16) inside (17) $\frac{1}{2}$
(18) 0.1678 (19) {2, 3, 5, 7}
(20) 4 (21) 1.2 (22) \emptyset

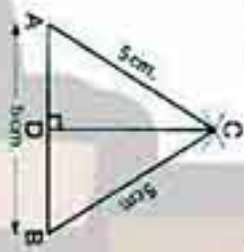
3 (23) 8.379, 8.38

- (24) [a] $\frac{3}{6} = \frac{1}{2}$ [b] $\frac{0}{6} = 0$
(25) [a] {4} [b] {0, 1, 2, 6, 8}
(26)



24 Aswan

- 1 (1) 4.76 (2) \emptyset (3) <
(4) 9820 (5) 9 (6) $\frac{1}{6}$
(7) 0.58 (8) X (9) 2
(10) $\frac{1}{2}$ (11) 7 (12) 3
(13) 1 (14) 4
- 2 (15) a diameter (16) {2, 5, 7} (17) $\frac{1}{6}$
(18) 2 (19) 3 (20) 1
(21) 180 (22) 350



- 3 (23) [a] $\frac{3}{15} = \frac{1}{5}$ [b] $\frac{10}{15} = \frac{2}{3}$
(24)

- (25) The price = $2.25 \times 5 = 11.25$ pounds.
(26) [a] {2, 3, 4, 6} [b] {2, 3}

25 South Sinai

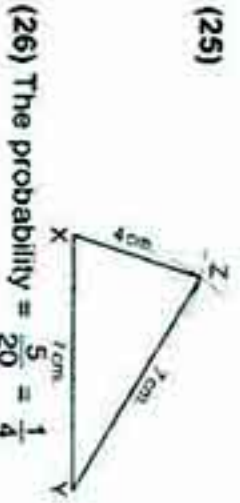
- 1 (1) 9870 (2) hundredth (3) 2
(4) diameter (5) 54 (6) \emptyset
(7) 23.348 (8) X (9) 3
(10) \subset (11) 0.753 (12) >
(13) 10.9 (14) 2

2 (15) 24

- (16) $\frac{2}{15}$ (17) 2
(18) {1} (19) 5 (20) a diameter
(21) {1, 5} (22) 1

3 (23) The price = $6.45 \times 2.4 = 15.48$ pounds.

- (24) [a] {3, 4} [b] {1, 2, 6, 7}
(25)



(26) The probability = $\frac{5}{20} = \frac{1}{4}$

NOTES

تفوقك في أي مذاكرة عليها العلامة دي
www.facebook.com/groups/zakroolypr5

هذا العمل حصري على موقع ذاكرولى التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على الانترنت

Model Examinations 2018

Model

1

Answer the following questions :

1 Choose the correct answer :

(1) $14.726 \approx \dots\dots\dots$ (to the nearest hundredth)

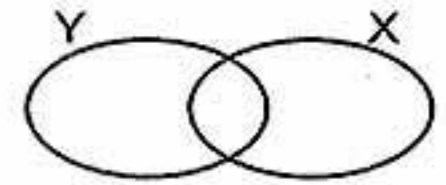
(14.7 or 14.73 or 14.72 or 15)

(2) $\{3\} \dots\dots\dots \{1, 3, 5\}$ (\in or \notin or \subset or $\not\subset$)(3) $9.64 \div 4 = \dots\dots\dots$

(241 or 2.41 or 1.96 or 38.56)

(4) The probability of the impossible event is $\dots\dots\dots$ (0 or $\frac{1}{3}$ or $\frac{2}{3}$ or 1)(5) $\frac{1}{2} \div \frac{1}{4} = \dots\dots\dots$

(2 or 4 or 3 or 6)

(6) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or U or \bar{X})(7) The shaded part in the opposite figure represents $\dots\dots\dots$ (X \cup Y or $X - Y$ or U or $X \cap Y$)(8) A circle with a diameter length 8 cm. , then the length of its radius = $\dots\dots\dots$ cm.

(4 or 5 or 6 or 16)

(9) $2.5 \times 100 = \dots\dots\dots$

(250 or 25 or 0.25 or 0.025)

(10) $3 \dots\dots\dots \{33\}$ (\subset or $\not\subset$ or \in or \notin)(11) $3 \frac{1}{8} \approx \dots\dots\dots$ (to the nearest hundredth)

(3.10 or 3.12 or 3.13 or 3)

(12) The number of the altitudes in any triangle = $\dots\dots\dots$

(1 or 2 or 3 or 0)

(13) $3 \dots\dots\dots$ the set of the odd numbers.(\in or $\not\subset$ or \notin or \subset)(14) $(2 \frac{1}{2} + 7 \frac{1}{2}) \div \frac{1}{5} = \dots\dots\dots$

(2 or 5 or 10 or 50)

2 Complete each of the following :

(15) $3.75 \times 1\,000 = \dots\dots\dots$

(16) If $\{1, x\} = \{2, y\}$, then $x = \dots\dots\dots$ and $y = \dots\dots\dots$

(17) All radii of the same circle are $\dots\dots\dots$

(18) $3\frac{1}{2} \div \frac{7}{12} = \dots\dots\dots$

(19) The longest chord in a circle is the $\dots\dots\dots$

(20) $20.6354 \times 100 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest tenth)

3 Answer the following :

(21) $\frac{1}{4} \times \frac{2}{3} = \dots\dots\dots$

(22) $43.85 - 12.28 = \dots\dots\dots$

(23) $6.8 \times 3.2 = \dots\dots\dots$

(24) $1575 \div 63 = \dots\dots\dots$

(25) The length of a roll of cloth is 53.55 metres. It was divided into equal parts where the length of each part is 3.15 metres. Find the number of these parts.
 $\dots\dots\dots$ (26) Find all the subsets of the set X where $X = \{a, b\}$

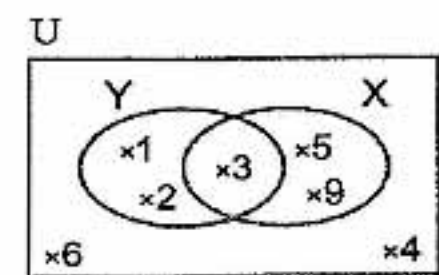
(27) By using the opposite Venn diagram, find :

[a] $X \cup Y$

[b] $X \cap Y$

[c] $X - Y$

[d] \bar{Y}



(28) Arrange the following numbers in an ascending order :

$\frac{1}{4}, 0.8, 0.4$ and $\frac{1}{2}$
 $\dots\dots\dots$

(29) Draw the isosceles triangle ABC in which $BC = 4$ cm. and $AB = AC = 6$ cm. , then draw \overline{AD} perpendicular to \overleftrightarrow{BC}

(30) A bag contains 5 red balls , 8 black balls and 7 white balls and all the balls are equal in size , if a ball is drawn randomly. What is the probability that :

[a] The drawn ball is white ?

[b] The drawn ball is black ?

[c] The drawn ball is not red ?

[d] The drawn ball is white or black ?

Final Examinations

Model

2

Answer the following questions :

1 Choose the correct answer :

- (1) $12 \dots \{0, 2, 4, 6, 8, \dots\}$ (\in or \notin or \subset or $\not\subset$)
- (2) 50 days \approx weeks (to the nearest week)
(7 or 6 or 5 or 4)
- (3) $327 \div 24 = 3.27 \div$ (24 or 2.4 or 0.24 or 240)
- (4) The longest chord in the circle is called
(diameter or radius or side or centre)
- (5) The set $\{2, 4, 6, \dots\}$ is set.
(a finite or an infinite or an empty)
- (6) The altitudes of the obtuse-angled triangle intersect at one point
..... the triangle.
(inside or outside or at the vertex of the right angle)
- (7) $48.2 \times 3.7 \dots 4.82 \times 37$ (\neq or $<$ or $>$ or $=$)
- (8) A circle of radius length 5 cm. , then its diameter length = cm.
(2.5 or 10 or 15 or 5)
- (9) If $3 \notin \{x, x-1, x+1\}$, then $x =$
(2 or 3 or 4 or 1)
- (10) If $X \subset Y$, then $X \cup Y =$ (X or Y or U or \emptyset)
- (11) If $\{2, 5\} - \{4, x, 5\} = \emptyset$, then $x =$
(2 or 4 or 5 or 6)
- (12) $5.67 \div 2.4 = \dots \div 24$
(0.567 or 5.67 or 56.7 or 567)
- (13) $\{7, 8\} \dots \{7, 9, 11\}$ (\in or $\not\subset$ or \notin or \subset)
- (14) The decimal form of the fraction $\frac{3}{20}$ is
(0.15 or $\frac{1}{7}$ or 0.3 or $\frac{15}{21}$)

2 Complete the following :

- (15) $20.857 \approx$ (to the nearest $\frac{1}{100}$)
- (16) 63 days = weeks.

- (17) If $7 \in \{2, x, 5\}$, then $x = \dots\dots\dots$
 (18) The longest chord in the circle is $\dots\dots\dots$
 (19) $45.67 \div 100 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)
 (20) The probability of the sure event = $\dots\dots\dots$

3 Answer the following :

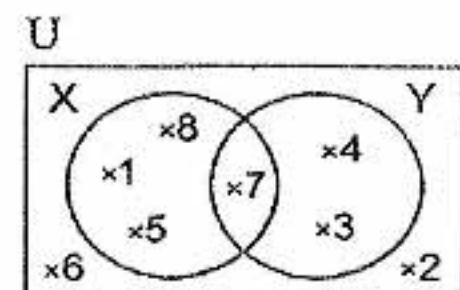
- (21) Using the opposite Venn diagram ,
 find by listing method :

[a] $X \cap Y$

[b] $X \cup Y$

[c] $Y - X$

[d] $(X \cap Y)'$



- (22) Arrange the following numbers in an ascending order :

$$7 \frac{3}{5}, 5.56, 7 \frac{3}{4} \text{ and } 6.2$$

- (23) In the experiment of throwing a die once , find the probability of appearing :

[a] An odd number smaller than 5

[b] An even prime number

[c] A number divisible by 3

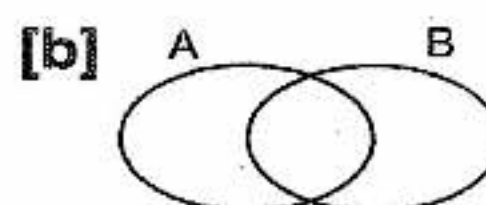
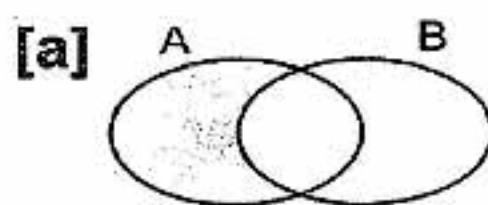
[d] A number bigger than 6

- (24) $17.5 \times 8.43 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest tenth)
 (25) $420.353 - 67.51 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest hundredth)
 (26) $\frac{1}{2} \div \frac{4}{5} = \dots\dots\dots$
 (27) $6188 \div 221 = \dots\dots\dots$

- (28) Draw a circle M of diameter length 6 cm.
 , then draw the diameter \overline{BC} and the
 chord \overline{BA} of length 3 cm.

- (29) A barrel has 236.25 litres of oil. If we want to pack it in bottles
 where every bottle holds 0.75 litres. Find the number of bottles.

- (30) Write the relation between the two sets A and B which represent
 the shaded part of each shape :



Final Examinations

Model 3

Answer the following questions :

1 Choose the correct answer :

(1) The probability of the impossible event =

(\emptyset or zero or 0.5 or 1)

(2) The number of the altitudes of the triangle =

(0 or 1 or 2 or 3)

(3) $46.432 \approx 46.43$ approximated to the nearest

(ten or 0.1 or 0.01 or 0.001)

(4) If $\{x, 2\} = \{2, 5\}$, then $x =$

(1 or 2 or 3 or 5)

(5) $\{1, 2, 3, 4, \dots\}$ is set.

(a finite or an infinite or an empty)

(6) A circle is of diameter length 8 cm. , then its radius length = cm.

(6 or 8 or 16 or 4)

(7) $\frac{4}{3} \times \dots = 1$

($\frac{5}{4}$ or $\frac{1}{4}$ or 0.75 or 0.8)

(8) $\{4, 3\} \cap \emptyset =$

($\{4\}$ or $\{3\}$ or $\{4, 3\}$ or \emptyset)

(9) $0.3 \times 0.2 =$

(0.6 or 0.06 or 0.006 or 6)

(10) When tossing a die once , the probability of getting a prime

number =

($\frac{5}{6}$ or $\frac{1}{3}$ or $\frac{1}{6}$ or $\frac{1}{2}$)

(11) $255 \div 25 = 2.55 \div$

(2.5 or 0.25 or 25 or 2500)

(12) 8 $\{18, 808\}$

(\in or \notin or \subset or $\not\subset$)

(13) The longest chord in the circle is called

(radius or side or diameter or centre)

(14) 245 hours \approx days.

(11 or 10 or 12 or 9)

2 Complete the following :

(15) $\frac{1}{4} \times 4 = \dots\dots\dots$

(16) All diameters are $\dots\dots\dots$ in length in the same circle.

(17) 354 cm. = $\dots\dots\dots$ m.

(18) If $6 \in \{2x, 3, 5\}$, then $x = \dots\dots\dots$

(19) The probability of the certain event = $\dots\dots\dots$

(20) 8.3 tons = $\dots\dots\dots$ kg.

3 Answer the following :

(21) $4.52 \times 0.3 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest 2 decimal place)

(22) $24.7 - 7\frac{1}{2} = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest unit)

(23) $2.46 \div 0.6 = \dots\dots\dots$

(24) Arrange in an ascending order :

$7.8, 7.75, 6\frac{1}{4}$ and 6.4

(25) If $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$
 $X = \{2, 4, 5, 6\}$ and $Y = \{4, 5, 7\}$
 Represent these sets by Venn diagram
 , then find :

[a] $X \cap Y$

[b] $X \cup Y$

[c] $X - Y$

[d] X^c

(26) As throwing a fair die once , calculate the probability of :

[a] Appearing a number greater than 3 and less than 4

[b] Appearing an even prime number.

[c] Appearing an odd number.

(27) Find the area of the rectangle of 15.5 metres long and 7.5 metres wide.

(28) Draw the circle whose its diameter \overline{BC}
 such that $BC = 8$ cm. and draw the chord \overline{BA}
 its length = 4 cm. and draw \overline{AC}
 , use the protractor to measure $\angle BAC$

Final Examinations

(29) If the price of a piece of sweet is 2.25 pounds. What is the price of 25 pieces of the same kind ?

(30) If $\frac{2}{3} = \frac{16}{c}$, find the value of c

Model

4

Answer the following questions :

1 Choose the correct answer :

(1) $\frac{7}{9}$ $2\frac{1}{9}$ ($<$ or $>$ or $=$ or \geq)

(2) If $a \in X$, then a \bar{X} (\in or \notin or \subset or $\not\subset$)

(3) $736.592 \approx 736.59$ to the nearest
(0.1 or 0.01 or 0.001 or 100)

(4) The probability of the sure event =
(0 or 1 or 2 or 3)

(5) $75.3 \div 100 =$ (753 or 7.53 or 7530 or 0.753)

(6) The number of altitudes of any triangle is
(1 or 2 or 3 or 4)

(7) $1575 \div 63 =$ (45 or 35 or 25 or 15)

(8) 58.236×100 582.36 ($<$ or $>$ or $=$ or \leq)

(9) The measure of the right angle =
(80° or 90° or 180° or 140°)

(10) $\{17\}$ $\{1, 7, 17, 27\}$ (\notin or \in or \subset or $\not\subset$)

(11) The altitudes of the obtuse-angled triangle intersect at one point located the triangle. (on or inside or outside)

(12) If $\{1, 5, 4\} = \{1, 4, x + 2\}$, then $x =$
(7 or 3 or 4 or 5)

(13) $325.4 \div 10$ $3254 \div 100$ ($<$ or $=$ or \neq or $>$)

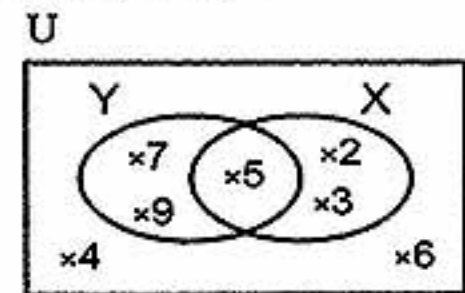
(14) If $\frac{3}{5} = \frac{x}{20}$, then $x =$ (7 or 12 or 15 or 18)

2 Complete the following :

- (15) 3.4 kg. = gm.
 (16) If $4 \in \{3, x, 5\}$, then $x =$
 (17) The longest chord in a circle is called
 (18) If $\{3, 6\} = \{y, 3\}$, then $y =$
 (19) $\times 2 \frac{1}{5} = 1$
 (20) $546.8 \div 53 \approx$ (to the nearest tenth)

3 Answer the following :

- (21) $42.785 + 37 \frac{1}{2} =$
 (22) $46 - 23.456 =$ \approx (to the nearest hundredth)
 (23) $2.46 \div 0.6 =$
 (24) Draw a circle M with radius length 5 cm.
 , draw \overline{AB} is a diameter and \overline{BC} is a chord
 with length 8 cm. , draw \overline{AC} , then find :
 [a] The length of \overline{AC} [b] $m(\angle C)$
 (25) A box contains 20 cards numbered from 1 to 20 , if a card is drawn
 randomly , calculate the probability of the drawn card is :
 [a] An odd number [b] A number divisible by 3
 [c] A number less than 6
 (26) From the opposite Venn diagram , find by the listing method :
 [a] $X \cup Y$
 [b] $X \cap Y$
 [c] $X - Y$
 [d] X^c
 (27) Arrange the following numbers ascendingly :
 $14 \frac{1}{4}$, 15.025 , 14.375 and $14 \frac{1}{8}$

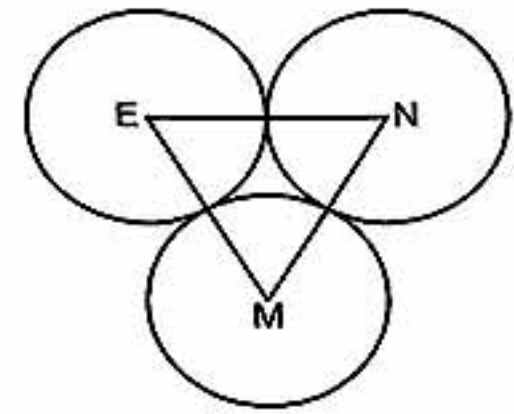


- (28) Draw the equilateral triangle ABC
 whose side length = 5 cm. , then
 draw $\overline{AD} \perp \overline{BC}$ and find :
 [a] The perimeter of $\triangle ABC$
 [b] $m(\angle CAD)$ by measuring.

Final Examinations

(29) In the opposite figure :

Three circles of centres
M , N and E of radius
length 3 cm. for each.

Find the perimeter of $\triangle MEN$ 

(30) If the length of a piece of cloth is 9.25 m. , 12 towels are made of it
 , the length of each towel is 0.75 m.

How many metres are remainder ?

Model

5

Answer the following questions :

1 Choose the correct answer :

(1) $A \cup \bar{A} = \dots\dots\dots$ (\emptyset or A or \bar{A} or U)(2) $2.7 \times 3.5 \dots\dots\dots 0.27 \times 35$ (\neq or $>$ or $=$ or $<$)(3) 572.4 cm. to the nearest metre = $\dots\dots\dots$

(6 or 50 or 6.8 or 572)

(4) The probability of impossible event is $\dots\dots\dots$ (1 or 7 or 0 or \emptyset)(5) The number of altitudes of the triangle = $\dots\dots\dots$

(0 or 2 or 1 or 3)

(6) If $3 \in \{x + 2, 5\}$, then $x = \dots\dots\dots$

(1 or 2 or 3 or 4)

(7) $\{2, 4\} \dots\dots\dots \{2, 3, 4\}$ (\in or \notin or \subset or $\not\subset$)

(8) If the radius length of a circle is 5 cm. , then the length of the longest
chord is $\dots\dots\dots$ cm.

(5 or 10 or 2.5 or 7)

(9) The set of odd numbers is $\dots\dots\dots$ set.

(a finite or an infinite or an empty)

(10) $\frac{1}{2} \dots\dots\dots \frac{3}{4}$ ($<$ or $>$ or $=$ or \geq)(11) 10 halves $\dots\dots\dots$ 20 fifths($>$ or $<$ or \leq or $=$)

(12) $7465.3 \div 100 = \dots\dots\dots$

(74653 or 746.53 or 74.653 or 7.4653)

(13) If $\{3, 4\} = \{1 + y, 4\}$, then $y = \dots\dots\dots$

(7 or 4 or 2 or 5)

(14) The longest chord in a circle is the $\dots\dots\dots$

(diameter or center or radius or side)

2 Complete the following :

(15) $\{3, 4, 5\} \cup \{1, 4, 5\} = \dots\dots\dots$

(16) $36.274 + 33.28 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)

(17) ABC is an equilateral triangle of side length 4.1 cm.
then its perimeter = $\dots\dots\dots$ cm.

(18) $2\frac{3}{4} \div 1\frac{3}{8} = \dots\dots\dots$

(19) If $\{8, 6, 7\} = \{x, 8, 7\}$, then $x = \dots\dots\dots$

(20) $7.64 \times 0.93 \approx \dots\dots\dots$ (to the nearest thousandth)

3 Answer the following :

(21) $420.353 - 67.51 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest hundredth)

(22) $2\frac{4}{5} \div \frac{7}{10} = \dots\dots\dots$

(23) $3744 \div 234 = \dots\dots\dots$

(24) $\frac{2}{3} \times 15 = \dots\dots\dots$

(25) Arrange in an ascending order :

$14\frac{1}{4}, 15.225, 14.375, 15.025$ and $14\frac{1}{8}$

(26) Draw the triangle ABC where $AB = 4$ cm.
BC = 5 cm. and $CA = 6$ cm.
then draw its altitudes.

Final Examinations

- (27) Write all the subsets of the set X where $X = \{a, b, c\}$, what is the number of subsets ?
- (28) A car covers equal distances in equal time. If this car covered 24.72 km. in one hour, how many km. are covered in $2\frac{1}{2}$ hours ?
- (29) A box contains 22 cards numbered from 1 to 22, if a card is drawn randomly, calculate the probability that the drawn card carries :
- [a] An odd number. [b] An even prime number.
[c] A number divisible by 7 [d] A number less than 6
- (30) If $U = \{1, 2, 3, 4, 5, 6, 9, 10\}$, $X = \{1, 2, 3, 4, 6\}$, $Y = \{1, 3, 6, 9\}$
Represent U , X and Y by Venn diagram, then find :
[a] $X \cap Y$ [b] $X \cup Y$
[c] $X - Y$

Model

6

Answer the following questions :

1 Choose the correct answer :

- (1) $2\frac{1}{3}$ $\frac{9}{4}$ ($>$ or $<$ or \leq or $=$)
- (2) $\{4, 5\}$ $\{2, 3, 7\}$ (\in or \notin or \subset or $\not\subset$)
- (3) The number of altitudes of the triangle is
(zero or 1 or 2 or 3)
- (4) The probability of the impossible event =
(\emptyset or zero or 0.50 or 1)
- (5) The number of subsets of the set $\{4, 5\}$ equals
(2 or 3 or 4 or 5)
- (6) If $4 \in \{2, x, 5\}$, then $x =$ (2 or 4 or 5 or 6)
- (7) The decimal form of the fraction $\frac{3}{20}$ is
(0.15 or $\frac{15}{21}$ or $\frac{1}{7}$ or 0.3)
- (8) 1.25×3.2 32×12.5 ($>$ or $=$ or $<$ or \geq)

(9) The quotient of dividing $2.25 \div 1.5 = \dots\dots\dots$

(1.5 or 15 or 0.15 or 500)

(10) $12.5 + 7.632 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)

(20.132 or 20.133 or 20.13 or 2.013)

(11) $225 \div \dots\dots\dots = 22.5$

(10 or 100 or 1000 or 100000)

(12) 3 $\dots\dots\dots$ the set of odd numbers.

(\in or \notin or \subset or $\not\subset$)

(13) 7 $\dots\dots\dots$ the set of the days of the week.

(\in or \notin or \subset or $\not\subset$)

(14) $\{5\} - \{1, 2, 5\} = \dots\dots\dots$

($\{5\}$ or $\{1, 2\}$ or $\{1, 2, 5\}$ or \emptyset)

2 Complete the following :

(15) ABC is an equilateral triangle of side length 5 cm. ,
then its perimeter = $\dots\dots\dots$ cm.

(16) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(17) $327 \div 24 = 3.27 \div \dots\dots\dots$

(18) $\{3, 4, 5\} - \{1, 2, 5\} = \dots\dots\dots$

(19) $(278.25 - 8) \times 4.75 \approx \dots\dots\dots$ (to the nearest thousandth)

(20) $17.5 \times 8.43 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest tenth)

3 Answer the following :

(21) The side length of a square is 2.03 cm.

Find its area approximating to the nearest hundredth.

$\dots\dots\dots$

(22) Arrange the following numbers ascendingly :

$\frac{3}{5}$, $\frac{3}{8}$, 0.8 and 0.75

$\dots\dots\dots$

(23) Draw a circle whose centre is M

and its diameter \overline{AB} of length 10 cm.

, then draw chord \overline{BC} with of length 8 cm. (Don't remove the arcs)

Find : [a] The length of \overline{AC}

[b] $m \angle C$

Final Examinations

(24) A box contains 10 cards numbered from 1 to 10 , a card has been selected randomly. Calculate the probability of selecting :

[a] An even number.

[b] A number divisible by 3

(25) Write all the subsets of $X = \{1, 2\}$

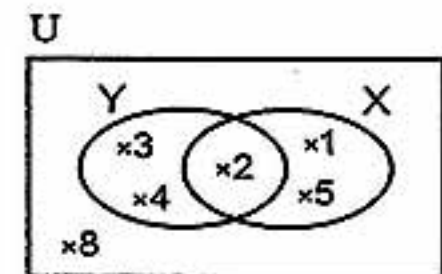
(26) Using the opposite Venn diagram , find :

[a] $X \cup Y$

[b] $X \cap Y$

[c] \bar{X}

[d] $X - Y$



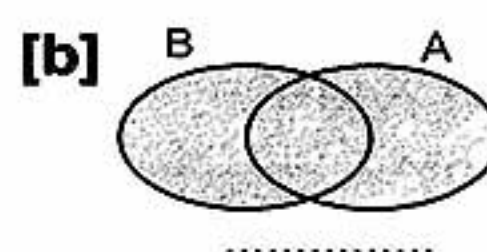
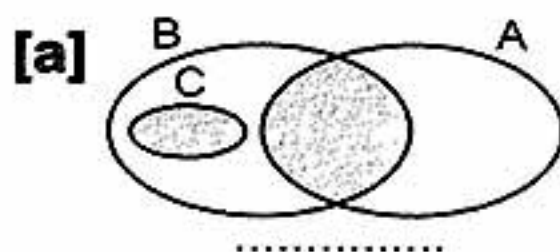
(27) $2 \frac{3}{4} \div 1 \frac{3}{8} = \dots\dots\dots$

(28) $45.3 \times 5.2 = \dots\dots\dots$

(29) If L.E. 487.5 distributed among some people and each of them takes L.E. 1.5 , find the number of persons.

.....

(30) Write what is represented by the shaded part in each diagram :



Model

7

Answer the following questions :

1 Choose the correct answer :

(1) $255 \div 25 = 2.55 \div \dots\dots\dots$ (2.5 or 0.25 or 25 or 2500)

(2) The longest chord in the circle is called

(a radius or a chord or a diameter or a diagonal)

(3) $55.241 \times 100 \dots\dots\dots 552.41 \times 10$ (\neq or $>$ or $<$ or $=$)

(4) $7 \dots\dots\dots \{17, 77\}$ (\in or \notin or \subset or $\not\subset$)

(5) 254 hours $\approx \dots\dots\dots$ days. (11 or 10 or 12 or 9)

(6) If $X \cap Y = X$, then $X \dots\dots\dots Y$ (\in or \notin or \subset or $\not\subset$)

(7) The number of altitudes of any triangle is

(2 or 3 or 4 or 5)

(8) $\emptyset \dots\dots\dots \{3, 4\}$

(\in or \notin or \subset or $\not\subset$)

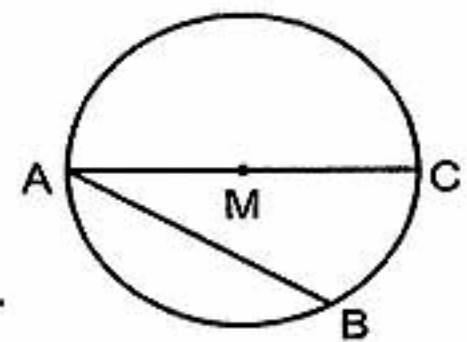
- (9) The probability of the impossible event is
(0 or 1 or 0.5 or 0.3)
- (10) $\{43\} \cap \{4, 3\}$ ($\{3\}$ or $\{4\}$ or $\{43\}$ or \emptyset)
- (11) If the length of the radius of a circle is 5 cm. , then the length of the longest chord = cm. (2 or 8 or 6 or 10)
- (12) $5.3553 \times 1000 \approx$ (to the nearest whole number)
(535.6 or 535.5 or 5355 or 53.55)
- (13) $12 \div \frac{4}{3} =$ (9 or 16 or 6 or 8)
- (14) $806.7 \div 100 =$ (80.67 or 8.067 or 8.076 or 8.607)

2 Complete the following :

- (15) $6\frac{1}{4} \div 12\frac{1}{2} =$
- (16) $26.274 + 23.28 =$ \approx (to the nearest $\frac{1}{100}$)
- (17) 39 days \approx weeks (to the nearest week)
- (18) $(3.7 \times 0.4) + 2.4 =$
- (19) $\{2, 4, 7\} \cup \{1, 4, 7\} =$
- (20) From the opposite circle :

[a] The chord of the circle M is

[b] The two radii of the circle M are and



3 Answer the following :

- (21) A circle of diameter length 8 cm. , then find its radius length.
.....

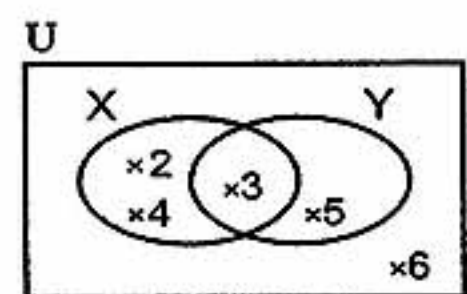
- (22) By using the opposite Venn diagram , find :

[a] $X \cap Y$

[b] $X \cup Y$

[c] $X - Y$

[d] Y



- (23) Arrange in a descending order :

$$3\frac{1}{2}, 5, 4\frac{1}{3}, 3.2 \text{ and } 4\frac{2}{7}$$

.....

Final Examinations

- (24) Draw the triangle ABC in which
 $AB = 6 \text{ cm.}$ and $BC = AC = 5 \text{ cm.}$, then draw $\overline{CD} \perp \overline{AB}$ and
 find the length of \overline{CD}
- (25) If the price of one metre of cloth is 27.5 pounds , what is the price
 of 3 metres ?

- (26) A box contains 5 white balls , 4 blue balls and 2 red balls , one ball
 is chosen randomly , find the probability of getting :
[a] A blue ball. **[b]** A red ball.
- (27) $77.728 \div 6.94 = \dots\dots\dots$
- (28) $11.5749 \approx \dots\dots\dots$ (to the nearest $\frac{1}{1000}$)
- (29) $5.73 \times 2.6 = \dots\dots\dots$
- (30) $11183 \div 211 = \dots\dots\dots$

Model

8

Answer the following questions :

1 Choose the correct answer :

- (1) $63.578 \approx 63.58$ to the nearest
 ($\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$ or $\frac{1}{10000}$)
- (2) $3\frac{1}{2} \div \frac{7}{12} = \dots\dots\dots$
 (6 or $\frac{3}{18}$ or $\frac{50}{12}$ or 4)
- (3) $67.5 - 55.67 = \dots\dots\dots$ (117.4 or 17.14 or 11.83 or 118.3)
- (4) $3 \dots\dots\dots \{13.303\}$ (\in or \notin or \subset or $\not\subset$)
- (5) The chord which passes through the centre of the circle is called
 (a diameter or a radius or a diagonal or a side)
- (6) The altitudes of -angled triangle intersect outside the triangle.
 (right or acute or obtuse)
- (7) $\{1, 2\} \cup \{2, 3\} = \dots\dots\dots$
 ($\{2\}$ or $\{1, 3\}$ or $\{1, 2, 3\}$ or \emptyset)

- (8) $355 \div 18 = 3.55 \div \dots\dots\dots$ (1.8 or 18 or 0.18 or 1800)
 (9) If $\{7, 10\} = \{10, x + 4\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 7)
 (10) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset or U)
 (11) The number of altitudes of the triangle is $\dots\dots\dots$ (0 or 1 or 2 or 3)
 (12) $\{4, 5\} \dots\dots\dots \{2, 3, 7\}$ (\in or \notin or \subset or $\not\subset$)
 (13) $55.241 \times 100 \dots\dots\dots 552.41 \times 10$ (\neq or $>$ or $<$ or $=$)
 (14) $\{7\} \dots\dots\dots \{17, 77\}$ (\in or \notin or \subset or $\not\subset$)

2 Complete the following :

- (15) $\{2, 4, 6\} \cap$ the set of all factors of the number 2 equals $\dots\dots\dots$
 (16) $2\frac{3}{4} \div 1\frac{3}{8} = \dots\dots\dots$
 (17) To draw a circle of diameter length 12 cm. , then the opening distance of the compasses should be $\dots\dots\dots$ cm.
 (18) $251.76 - 38\frac{1}{8} = \dots\dots\dots$ (to the nearest 0.01)
 (19) As throwing a metallic coin once then the sample space = $\dots\dots\dots$
 and the number of elements of the sample space = $\dots\dots\dots$
 (20) $45.37 + 28.3 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest $\frac{1}{10}$)

3 Answer the following :

- (21) The price of a bar of chocolate is L.E. 2.75
 What is the cost of 15 bars of the same kind ?
 (22) If $U = \{1, 2, 3, 4, 5, 6, 7\}$
 $X = \{1, 2, 3, 4\}$, $Y = \{1, 2, 5, 6\}$
 Represent these sets by Venn diagram , then find :
 [a] $X \cup Y$ [b] $X - Y$ [c] \bar{X}
 (23) Draw the triangle ABC in which
 $AB = 4$ cm. , $BC = 5$ cm. and $AC = 6$ cm.
 (24) A bag contains 5 white balls , 7 black balls and 3 red balls.
 All balls are equally likely in size , a ball is selected randomly ,
 find the probability of getting :
 [a] A black ball. [b] A yellow ball.
 [c] A red ball. [d] A white or red ball.

Final Examinations

(25) $38.5 \times 2.3 = \dots\dots\dots$

(26) $6.25 \div 2.5 = \dots\dots\dots$

(27) $10277 \div 239 = \dots\dots\dots$

(28) $\frac{3}{7} \times 1 \frac{5}{9} = \dots\dots\dots$

(29) Arrange ascendingly : $14 \frac{1}{4}$, 15.025 , 14.375 and $14 \frac{1}{8}$
.....
.....

(30) Find the perimeter of the rectangle whose length is 4.1 cm. and its width is 3.5 cm. , then calculate its perimeter.
.....
.....

Model

9

Answer the following questions :

1 Choose the correct answer :

(1) $4.25 \times 1000 = \dots\dots\dots$ (425 or 42.5 or 42500 or 4250)

(2) The probability of the certain event is

(zero or 1 or 0.5 or \emptyset)

(3) The number of altitudes of any triangle is

(zero or 1 or 2 or 3)

(4) If $\{3, 6\} = \{3, x - 3\}$, then $x = \dots\dots\dots$

(2 or 3 or 6 or 9)

(5) ABC is an equilateral triangle of side length 4.5 cm. , then its perimeter = cm.

(12 or 13.5 or 15 or 9)

(6) The quotient of dividing $2.25 \div 1.5 = \dots\dots\dots$

(1.5 or 15 or 0.15 or 500)

(7) The probability that the elephant flies =

(1 or zero or \emptyset or $\frac{1}{2}$)

(8) $32 \dots\dots\dots \{3, 2, 5\}$

(\in or \notin or \subset or \supset)

(9) The longest chord in the circle is called

(radius or side or centre or diameter)

(10) $\emptyset \dots\dots\dots \{0, 7\}$

(\in or \notin or \subset or \supset)

(11) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(X or Y or U or \emptyset)

- (12) A circle with diameter length = 8 cm.
 , then its radius length = cm. (8 or 16 or 6 or 4)
- (13) 39 days \approx weeks (to the nearest week)
 (5 or 6 or 7 or 8)
- (14) $86.4 \div 100 = \dots\dots\dots$ (864 or 8.64 or 8640 or 0.864)

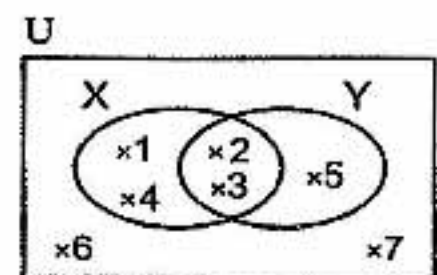
2 Complete each of the following :

- (15) $37.2664 \approx \dots\dots\dots$ (to the nearest thousandth)
- (16) $\{45\} - \{5\} = \dots\dots\dots$
- (17) $\frac{2}{7} \div \frac{3}{7} = \dots\dots\dots$
- (18) As throwing a fair die once , then the probability of appearing an even number =
- (19) 657 kilometres = metres
- (20) $4.25 \div \dots\dots\dots = 8 \frac{1}{2}$

3 Answer the following :

- (21) $4 \frac{19}{500} \approx \dots\dots\dots$ (to the nearest hundredth)
- (22) $\frac{3}{4} \times \frac{4}{9} = \dots\dots\dots$ (in the simplest form)
- (23) $3.125 \times 4.3 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest thousandth)
- (24) $26.274 + 23.28 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest whole number)
- (25) If $X = \{2, 4, 5, 9\}$ and $Y = \{4, 8, 9\}$
 Represent the two sets X and Y using a Venn diagram , then find : $X \cap Y$
- (26) If $A = 13.225$ and $B = 12.45$, find the result of $A + B$ to the nearest tenth.

- (27) Look at the opposite Venn diagram and find :
 [a] $X \cup Y$ [b] $X - Y$
 [c] $X \cap Y$ [d] $(X \cup Y)'$
- (28) If the price of one piece of sweet is 4.25 pounds , what is the cost price of 36 pieces of the same kind ?



Final Examinations

- (29) Draw the equilateral triangle ABC
whose side length = 5 cm. and draw $\overline{AD} \perp \overline{BC}$
, then find the perimeter of $\triangle ABC$
- (30) As throwing a fair die once , what is the probability of getting :
[a] A number less than or equal to 6 [b] A number more than 6
[c] A number divisible by 3 [d] A prime number.

Model

10

Answer the following questions :

1 Choose the correct answer :

- (1) $98.7 \times 1000 = \dots\dots\dots$
(987.0 or 0.987 or 98700 or 9870)
- (2) $\emptyset \dots\dots\dots \{0\}$ (\in or \notin or \subset or $\not\subset$)
- (3) The length of the diameter = $\dots\dots\dots$
($\frac{1}{2}r$ or r or $2r$ or $3r$)
- (4) Every triangle has $\dots\dots\dots$ altitudes. (1 or 2 or 3 or 4)
- (5) $12 \dots\dots\dots \{0, 2, 4, 6, \dots\}$ (\subset or $\not\subset$ or \in or \notin)
- (6) If M is a circle whose diameter length is 8 cm. where $MA = 7$ cm. ,
then the point A is located $\dots\dots\dots$ the circle.
(inside or outside or on)
- (7) $355 \div 18 = 3.55 \div \dots\dots\dots$ (1800 or 18 or 108 or 0.18)
- (8) If $X \subset Y$, then $X - Y = \dots\dots\dots$ (X or Y or \emptyset or U)
- (9) $86.4 \div 100 = \dots\dots\dots$ (86.4 or 0.864 or 8.64 or 8640)
- (10) $\frac{1}{2} \times \frac{1}{2} = \dots\dots\dots$ (4 or 1 or $\frac{1}{4}$ or 2)
- (11) If $\{3, 4\} = \{y + 1, 4\}$, then $y = \dots\dots\dots$ (3 or 4 or 2)
- (12) The longest chord in the circle is called a $\dots\dots\dots$
(centre or diameter or radius or side)
- (13) $A \cap \bar{A} = \dots\dots\dots$ (U or A or \emptyset or \bar{A})
- (14) $\{1, 3\} \dots\dots\dots \{5, 7, 8\}$ (\in or \notin or \subset or $\not\subset$)

2 Complete the following :

(15) $478.347 - 134.834 = \dots \approx \dots$ (to the nearest hundredth)

(16) If $X \subset Y$, then $X \cup Y = \dots$

(17) $\{2, 4, 6\} \cap$ the set of all factors of the number 2 = \dots

(18) $2\frac{1}{4} \div 1\frac{1}{8} = \dots$

(19) 40 days $\approx \dots$ weeks (to the nearest week)

(20) If $8 \in \{5, 6, x\}$, then $x = \dots$

3 Answer the following :

(21) $6630 \div 195 = \dots$

(22) $2\frac{1}{2} \times 1\frac{1}{3} = \dots$

(23) $104.32 \div 3.26 = \dots$

(24) $64.43 \div 10 = \dots \approx \dots$ (to the nearest hundredth)

(25) $7.2145 \times 100 = \dots \approx \dots$ (to the nearest tenth)

(26) Write all subsets of the set $X = \{5, 7\}$

.....

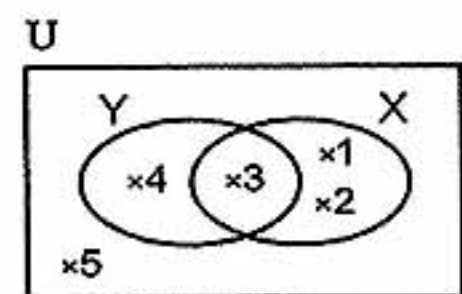
(27) From the opposite Venn diagram, find :

[a] $X \cap Y$

[b] $X \cup Y$

[c] $X - Y$

[d] \bar{Y}

(28) If the price of one can of juice is L.E. 3.25
Find the price of 7 cans of juice.

.....

(29) Draw the equilateral triangle ABC whose
side length is 5 cm., then find $m(\angle ABC)$ (30) A fair die is thrown once. What is the probability of each of the
following event :

[a] Appearing an odd number.

[b] Appearing a number more than 4

Final Examinations

Model

11

Answer the following questions :

1 Choose the correct answer :

(1) $2 \dots\dots\dots \{5, 2, 52\}$ (\in or \notin or \subset or $\not\subset$)

(2) $55.241 \times 100 \dots\dots\dots 552.41$ (\leq or $>$ or $<$ or $=$)

(3) The length of the diameter of the circle whose radius length is 4 cm. = $\dots\dots\dots$ cm. (4 or 8 or 16 or 2)

(4) $806.7 + 100 = \dots\dots\dots$ (80.67 or 8.067 or 8067 or 80670)

(5) The number $83.7694 \approx 83.77$ to the nearest $\dots\dots\dots$ ($\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$ or $\frac{1}{10000}$)

(6) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or U or \emptyset)

(7) $327 \div 24 = 3.27 \div \dots\dots\dots$ (2.4 or 0.24 or 24 or 240)

(8) $\{3\} \dots\dots\dots \{303, 13\}$ (\in or \notin or \subset or $\not\subset$)

(9) The number of altitudes of the right-angled triangle is $\dots\dots\dots$ (1 or 2 or 3 or 0)

(10) The altitudes of the acute-angled triangle intersect $\dots\dots\dots$ the triangle. (inside or outside or on)

(11) $\frac{1}{8} \approx \dots\dots\dots$ (to the nearest hundredth) (0.125 or 0.12 or 0.13 or 1.0)

(12) Probability of certain event is $\dots\dots\dots$ (\emptyset or 1 or 0 or 2)

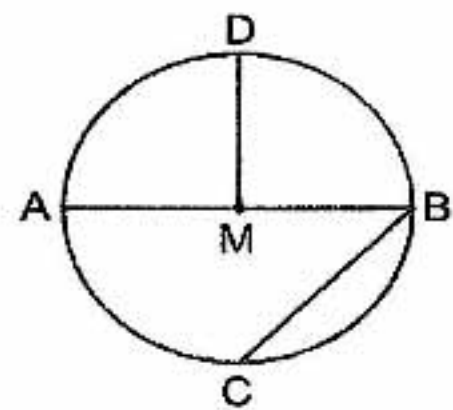
(13) Any line segment connects between any two points on the circle is called $\dots\dots\dots$ (centre or diameter or radius or chord)

(14) $1\frac{1}{2} \div \frac{1}{2} = \dots\dots\dots$ (3 or $\frac{3}{4}$ or 12 or 6)

2 Complete the following :

(15) $\emptyset \dots\dots\dots \{a, b\}$

(16) $6.35 + 17.025 \approx \dots\dots\dots$ to the nearest $\frac{1}{100}$

(17) It is $\dots\dots\dots$ that the sun rises from the west.(18) As throwing a fair die once , then the probability of appearing a number less than 3 is $\dots\dots\dots$ (19) The altitudes of the right-angled triangle intersect at $\dots\dots\dots$ **(20) From the opposite figure :**[a] \overline{BC} is called $\dots\dots\dots$ in the circle M[b] $\dots\dots\dots$ is a diameter.**3 Answer the following :**

(21) $3.52 \times 4.6 = \dots\dots\dots$

(22) $2\frac{1}{2} \times 1\frac{1}{5} = \dots\dots\dots$

(23) $5674.9 \div 1000 = \dots\dots\dots$

(24) $860.7 \div 1.9 = \dots\dots\dots$

(25) The price of a bar of chocolate is L.E. 2.75 , what is the cost of 15 bars of the same kind ?
 $\dots\dots\dots$

(26) Arrange the following numbers in an descending order :

$\frac{1}{4}$, 0.8 , 0.4 and $\frac{1}{2}$
 $\dots\dots\dots$

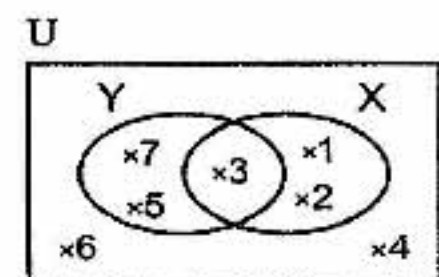
(27) From the opposite Venn diagram , complete :

[a] $X \cap Y$

[b] $X \cup Y$

[c] $X - Y$

[d] \bar{X}

(28) Write all the subsets of the set X where $X = \{5, 6, 7\}$
 $\dots\dots\dots$

Final Examinations

(29) A bag contains 5 white balls , 7 black balls and 3 red balls. All balls are equal in size. A balls is drawn randomly , calculate the probability of the drawn ball is :

[a] Black.

[b] Yellow.

[c] White or red.

[d] Not red.

(30) Draw $\triangle ABC$ where $AB = AC = 5$ cm.

and $BC = 4$ cm. , then draw \overline{AD} perpendicular from A to \overline{BC}

Model

12

Answer the following questions :

1 Choose the correct answer :

(1) The probability of the impossible event =

(0.5 or 1 or 0 or \emptyset)

(2) 2.7×3.5 0.27×35

(> or < or \neq or =)

(3) \emptyset $\{8, 7\}$

(\in or \notin or \subset or $\not\subset$)

(4) If $\{3, 6\} = \{3, x\}$, then $x =$

(2 or 9 or 3 or 6)

(5) If $X \subset Y$, then $X \cap Y =$

(U or X or Y or \emptyset)

(6) $56.7 \div$ = 0.0567

(10 or 100 or 1000 or 10000)

(7) $\{5\}$ $\{55, 15\}$

(\in or \notin or \subset or $\not\subset$)

(8) The right-angled triangle has altitudes.

(0 or 1 or 2 or 3)

(9) 38 days \approx week (to the nearest week)

(4 or 5 or 6 or 7)

(10) 7 $\{3, 5, 7, 8\}$

(\in or \notin or \subset or $\not\subset$)

(11) $255 \div 2.5 =$

(10.5 or 102 or 12 or 120)

(12) 34596 gm. \approx kg.

(35 or 346 or 3460 or 34)

(13) zero \emptyset

(\in or \notin or \subset or $\not\subset$)

(14) $\{1, 7\}$ $\{1, 2, 3, 4, \dots\}$

(\in or \notin or \subset or $\not\subset$)

2 Complete the following :

(15) The longest chord in the circle is called

(16) $\{1, 3\} \subset \{1 + y, 4, 1\}$, then : $y =$ (17) 572.3 cm. \approx m. (to the nearest metre)(18) If $A \subset B$, then : $A - B =$ (19) $6\frac{1}{4} \div 12\frac{1}{2} =$ (20) $26.274 + 23.28 =$ \approx (to the nearest $\frac{1}{100}$)**3 Answer the following :**(21) $77.728 \div 6.94 =$ (22) $11183 \div 211 =$ (23) $2\frac{1}{2} \times 3\frac{1}{4} =$ (24) $3.5 \times 2.7 =$ (25) $56.748 - 29.6666 =$ \approx (to the nearest $\frac{1}{1000}$)(26) If the universal set $U =$ the set of all factors of the number 12 and $X = \{1, 3, 2, 6\}$ and $Y = \{1, 4, 6, 3\}$ Draw a Venn diagram which represent the sets U , X and Y , then find :[a] $X \cup Y$ [b] $X \cap Y$ [c] \bar{X}

(27) A die is rolled once and the number of points on the upper face is observed. Find the probability of appearing :

[a] A number greater than or equal to 3

[b] An odd prime number.

(28) Rearrange the following numbers ascendingly :

 $\frac{3}{2}$, $\frac{3}{7}$, $\frac{3}{5}$, $\frac{3}{8}$ and $\frac{3}{4}$

(29) Draw the triangle ABC in which

AB = 4 cm., BC = 6 cm. and CA = 8 cm.

, then draw a circle whose centre

is B and its radius length is equal to 4 cm.

, then complete the following :

[a] The point A is located the circle.

[b] The point C is located the circle.

[c] The is called the radius of the circle.



Final Examinations

- (30) Find the area of the square whose side length is 5.02 m. approximating the result to the nearest tenth.

Model 13

Answer the following questions :

1 Choose the correct answer :

- (1) $7465.3 \div 100 = \dots\dots\dots$
(74653 or 746.53 or 74.653 or 7.4653)
- (2) $2.25 \div 1.5 = \dots\dots\dots$ (105 or 1.5 or 15 or 0.15)
- (3) $X - X = \dots\dots\dots$ (zero or $\{0\}$ or $\{1\}$ or \emptyset)
- (4) The altitudes of the triangle intersect at $\dots\dots\dots$
(one point or two points or three points or four points)
- (5) $3.75 \times 1000 = \dots\dots\dots$
(37.50 or 375 or 3750 or 375000)
- (6) The probability of the impossible event = $\dots\dots\dots$
(0 or 1 or 0.5 or \emptyset)
- (7) If $\{4, x + 2\} = \{7, 4\}$, then $x = \dots\dots\dots$
(4 or 5 or 7 or 9)
- (8) The longest chord in the circle is called $\dots\dots\dots$
(radius or centre or side or diameter)
- (9) $255 \div 25 = 2.55 \div \dots\dots\dots$
(25 or 0.25 or 2.5 or 2500)
- (10) 5.4 tons = $\dots\dots\dots$ kg.
(5400 or 540 or 0.54 or 54000)
- (11) $8 \dots\dots\dots \{7, 5, 8\}$ (\in or \notin or \subset or $\not\subset$)
- (12) $\emptyset \dots\dots\dots \{0, 1, 3\}$ (\in or \notin or \subset or $\not\subset$)
- (13) 12 $\dots\dots\dots$ The set days of the week. (\subset or \in or $\not\subset$ or \notin)
- (14) 10 halves $\dots\dots\dots$ 20 fifths. (\leq or $>$ or $<$ or $=$)

2 Complete the following :

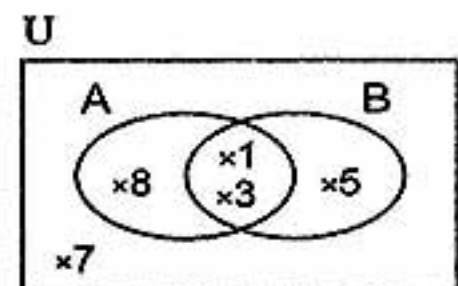
(15) The diameter of a circle is a chord that crosses the

(16) $\{1, 2\} \cup \{2, 3\} = \dots\dots\dots$ (17) $\{5, 7\} - \{1, 2\} = \dots\dots\dots$ (18) 4 tens \div 8 tenths =(19) If $X \cap Y = \emptyset$, then X and Y are

(20) The probability of the sure event =

3 Answer the following :(21) $3 \frac{1}{5} \times 15 = \dots\dots\dots$ (22) $5.766 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)(23) $7.4 \times 2.2 = \dots\dots\dots$ (24) $66.7 \div 1000 = \dots\dots\dots$ (25) $12474 \div 231 = \dots\dots\dots$

(26) Using the opposite Venn diagram, find :

[a] $A \cup B$ [b] $A \cap B$ [c] $B - A$ [d] B^c 

(27) Draw the triangle ABC in which

AB = BC = CA = 6 cm. , then draw $\overline{AD} \perp \overline{BC}$
 , then find the length of \overline{BD} and $m(\angle B)$ (28) Arrange in a descending order : $7\frac{1}{6}$, 5.3 , $7\frac{1}{11}$, $5\frac{4}{7}$ and 6(29) Write all the subsets of the set $X = \{a, b\}$

What is the number of subsets of the set X ?

(30) A bag contains 5 white balls , 9 red balls and 6 black balls ,
all the balls are identical and equal in size , if a ball is drawn
randomly. What is the probability that the drawn ball is :

[a] White.

[b] Not white.

[c] White or red.

Final Examinations

Model

14

Answer the following questions :

1 Choose the correct answer :

(1) $\{4, 5\}$ $\{2, 3, 7\}$ (\in or \notin or \subset or $\not\subset$)

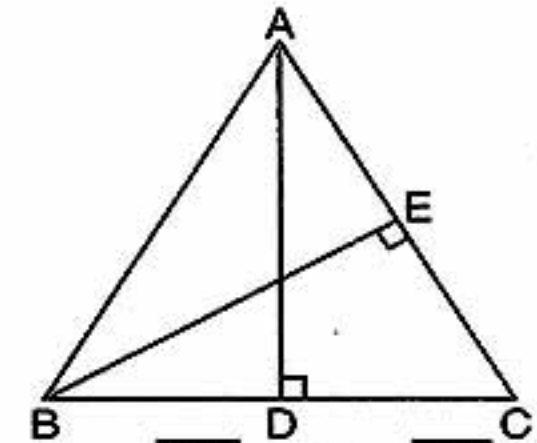
(2) The number of altitudes of the triangle is
(zero or 1 or 2 or 3)

(3) $3\frac{1}{2} \div \frac{7}{12} =$
(6 or $\frac{18}{2}$ or $\frac{50}{12}$ or 4)

(4) If the length of the radius of a circle is 5 cm. , then the length of the longest chord = cm.
(2 or 8 or 6 or 10)

(5) 254 hours \approx days. (11 or 10 or 12 or 9)

(6) In the opposite figure :

The corresponding base of the altitude \overline{AD} is

(\overline{AB} or \overline{BC} or \overline{CA} or \overline{BE})

(7) 55.241×100 552.41×10 ($<$ or $=$ or $>$ or \neq)

(8) If $\{3, 4\} = \{1 + y, 4\}$, then $y =$
(7 or 4 or 2 or 5)

(9) 2.7×3.5 0.27×35 (\neq or $<$ or $=$ or $>$)

(10) $12.5 + 7.632 \approx$ (to the nearest $\frac{1}{100}$)
(20.132 or 20.133 or 20.13 or 2.013)

(11) 7 $\{17, 77\}$ (\in or \notin or \subset or $\not\subset$)

(12) \emptyset $\{2, 4\}$ (\in or \notin or \subset or $\not\subset$)

(13) The probability of the certain event =
(0 or 0.5 or 1 or 2)

(14) If $X - Y = X$, then $X \cap Y =$ (X or Y or U or \emptyset)

2 Complete the following :

(15) Any line segment whose endpoints are on the circle is called

(16) The probability of an impossible event =

(17) The midpoint of any diameter in a circle is of the circle.

(18) $57.35 + 21.53 = \dots \approx \dots$ (to the nearest tenth)

(19) $\{2, 3, 6, 12\} \cap$ the set of factors of the number 6 =

(20) If $6 \in \{3, 5, 2x\}$, then $x = \dots$

3 Answer the following :

(21) $6.7898 - 4.247 = \dots \approx \dots$ (to the nearest thousandth)

(22) $\frac{5}{7} \times 1 \frac{2}{5} = \dots$

(23) $7885 \div 1000 = \dots$

(24) $26272 \div 821 = \dots$

(25) What is the number which if multiplied by 0.5 the product will be 33.86

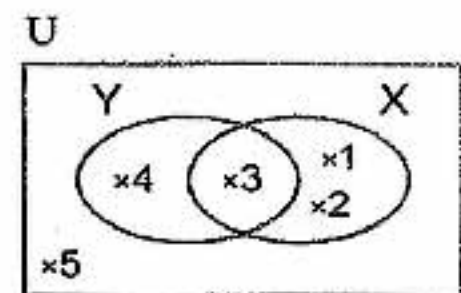
(26) Look at the opposite Venn diagram and find :

[a] $X \cap Y$

[b] $X \cup Y$

[c] $X - Y$

[d] Y^c



(27) Draw the triangle ABC in which

$AB = BC = 6$ cm. and $m(\angle B) = 120^\circ$

, then draw $\overline{AD} \perp \overline{BC}$ which intersects it at D

, then find the length of \overline{AD}

(28) A bag contains 3 white balls , 7 red balls , and 5 yellow balls.

All the balls are equal in size. If a ball is drawn randomly :

[a] What is the probability that the drawn ball is white.

[b] What is the probability that the drawn ball is not red.

(29) A car covers equal distances in equal times. If this car covered

24.73 km. in one hour , how many km. are covered in $2 \frac{1}{2}$ hours?

(30) A metal coin was thrown once , find the probability of appearing a head.

Final Examinations

Model 15

Answer the following questions :

1 Choose the correct answer :

- (1) The probability of the impossible event =
(\emptyset or zero or 1 or $\frac{1}{3}$)
- (2) The number of the altitudes of the triangle =
(0 or 1 or 2 or 3)
- (3) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$
(X or Y or \emptyset or U)
- (4) $46.432 \approx 46.43$ approximated to the nearest
(ten or 0.1 or 0.01 or 0.001)
- (5) If $\{3, 4\} = \{1 + y, 3\}$, then $y = \dots\dots\dots$
(7 or 4 or 2 or 3)
- (6) 40 days \approx weeks.
(4 or 6 or 5 or 7)
- (7) $17.947 \approx$ (to the nearest hundredth)
(17.948 or 17.95 or 17.90 or 17.94)
- (8) $\{2, 3\} \dots\dots\dots \{5, 7, 8\}$ (\in or \notin or \subset or $\not\subset$)
- (9) $95.3 \times 100 = \dots\dots\dots$ (0.953 or 953 or 9530 or 9.53)
- (10) As throwing a die once, then the probability of appearing a number less than 3 =
($\frac{1}{6}$ or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{2}{5}$)
- (11) $1.7 \div 10 = \dots\dots\dots$ (17 or 0.17 or 1.7 or 0.017)
- (12) 254 hours \approx days. (11 or 10 or 12 or 9)
- (13) The chord which passes through the centre of the circle is called
(a diameter or a radius or a centre or a side)
- (14) $255 \div 25 = 2.55 \div \dots\dots\dots$ (2.5 or 0.25 or 25 or 2500)

2 Complete the following :

- (15) If $\{8, 6, 7\} = \{x, 8, 7\}$, then $x = \dots\dots\dots$
- (16) $7.64 \times 0.93 \approx \dots\dots\dots$ (to the nearest thousandth)

(17) The probability of the certain event =

(18) 8.3 tons = kg.

(19) $\frac{7}{8} \approx$ (to the nearest hundredth)

(20) $\{1, 2\} \cup \{2, 3\} =$

3 Answer the following :

(21) $8\ 096 \div 253 =$

(22) $5\frac{1}{3} \times 9 =$

(23) $4\frac{1}{2} \div 1.5 =$

(24) Which is greater $\frac{5}{8}$ or 0.5734 ?

Find the difference between the two fractions.

(25) If the universal set U = the set of all factors of the number 12
 $X = \{1, 3, 2, 6\}$ and $Y = \{1, 4, 6, 3\}$
 Draw Venn diagram which represents the sets U , X and Y
 , then find : $X \cup Y$, $X - Y$, Y , $(X)^c$

(26) Write all the subsets of the set $X = \{a, b\}$, what is the number of subsets ?

(27) Draw $\triangle ABC$ where $AB = 4$ cm.
 $BC = 6$ cm. and $CA = 8$ cm.
 , then draw a circle of centre B
 and its radius length = 4 cm.

From the drawing complete :

[a] The point A lies the circle.

[b] The point C lies the circle.

[c] \overline{AB} is called in the circle.

(28) Find the area of the rectangle of 15.5 meters length and 7.5 meters width.

(29) When rolling a regular number cube. What is the probability of getting :

[a] A number more than 6 ?

[b] A number less than or equal to 6 ?

What is the name of the event in each case ?

Final Examinations

(30) A sample of 40 balls , 5 are red and the rest is in different colours.

What is the predicted number of red balls when the sample contains 400 balls ?

Model

16

Answer the following questions :

1 Choose the correct answer :

(1) $55.241 \times 100 \dots\dots\dots 552.41 \times 10$ (> or = or < or \neq)

(2) $\triangle ABC$ is an equilateral triangle of side length 5 cm. , then
its perimeter = $\dots\dots\dots$ cm. (20 or 25 or 8 or 15)

(3) $355 \div 18 = 3.55 \div \dots\dots\dots$ (0.18 or 1.8 or 18 or 180)

(4) $3.658 \approx 3.66$ approximated to the nearest $\dots\dots\dots$
(100 or $\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$)

(5) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (U or X or Y or \emptyset)

(6) The probability of impossible event is $\dots\dots\dots$
(1 or \emptyset or zero or 7)

(7) The number of the altitudes of the triangle is $\dots\dots\dots$
(3 or 2 or 1 or zero)

(8) $\emptyset \dots\dots\dots \{3, 5\}$ (\in or \notin or \subset or $\not\subset$)

(9) The measure of right angle $\dots\dots\dots$ The measure of obtuse angle
(> or < or = or \geq)

(10) 3.002 kilograms = $\dots\dots\dots$ grams.
(30.02 or 0.3002 or 300.2 or 3002)

(11) $\{3, 7\} \dots\dots\dots \{1, 3, 5, 7\}$ (\in or \notin or \subset or $\not\subset$)

(12) The smallest fraction from the following is $\dots\dots\dots$
($\frac{1}{3}$ or $\frac{2}{5}$ or $\frac{5}{8}$ or $\frac{2}{9}$)

(13) $1 \frac{1}{2} \div \frac{1}{4} = \dots\dots\dots$ (2 or 6 or $\frac{3}{8}$ or 12)

(14) $35.241 \times 100 = 3524.1$ (\checkmark or \times)

2 Complete the following :

- (15) The longest chord in a circle is
- (16) If $6 \in \{3, 5, 2x\}$, then $x = \dots\dots\dots$
- (17) $12 \frac{1}{2} \div 6 \frac{1}{4} = \dots\dots\dots$
- (18) The midpoint of any diameter in a circle is of the circle.
- (19) $5.0452 \approx \dots\dots\dots$ (to the nearest hundredth)
- (20) As throwing a fair die once, then the probability of getting a number less than 3 =

3 Answer the following :

- (21) $5.7258 \times 9 \approx \dots\dots\dots$ (approximate to the nearest thousandth)
- (22) $18.768 \div 8 \approx \dots\dots\dots$ (approximate to the nearest hundredth)
- (23) $13409 \div 253 = \dots\dots\dots$
- (24) $\{2, 5, 8\} - \{3, 5, 7\} = \dots\dots\dots$
- (25) $2.5 \times 4.42 = \dots\dots\dots$
- (26) If the universal set $U = \{x : x \text{ is an odd number less than } 15\}$
 $X = \{1, 3, 5\}$, $Y = \{1, 5, 9, 13\}$
 Draw a Venn diagram which represents the sets U, X, Y
 , then find : $X \cap Y$, $X - Y$ and Y^c
- (27) Find the product of 23.49×4.2 and approximate it to the nearest hundredth.

- (28) A barrel has 236.25 kgs of oil, if we want to pack it in bottles where every bottle holds 0.75 kgs. Find the number of bottles.

- (29) Draw a circle M whose radius length is equal to 3.5 cm. , then draw its diameter \overline{AB} and label any point $C \in$ the circle.
 Draw the triangle ABC and draw $\overline{CD} \perp \overline{AB}$ where $D \in \overline{AB}$
 , find the length of \overline{CD} ?

Final Examinations

(30) As throwing a fair die once , calculate the probability of :

- [a] Appearing a number greater than 6
 [b] Appearing an even number greater than 4
 [c] Appearing an even prime number.

Model

17

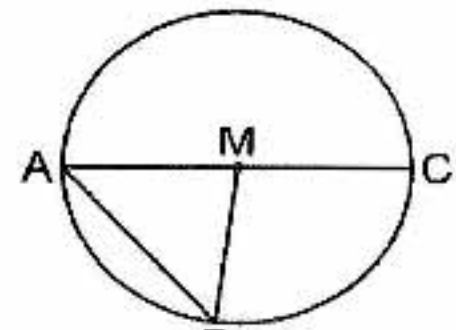
Answer the following questions :

1 Choose the correct answer :

- (1) $32 \dots\dots\dots \{3, 2, 5\}$ (\in or \notin or \subset or $\not\subset$)
 (2) A letter of the word "ALEXANDRIA" is selected randomly , then the probability of selecting the letter "A" =
 ($\frac{3}{7}$ or $\frac{3}{10}$ or $\frac{1}{3}$ or $\frac{1}{2}$)
 (3) $\emptyset \dots\dots\dots \{0, 7\}$ (\in or \notin or \subset or $\not\subset$)
 (4) The number of the altitudes of the acute-angled triangle is
 (1 or 2 or 3 or 0)
 (5) $63.594 \approx 63.6$ (to the nearest)
 (0.1 or 0.01 or 0.001 or 10)
 (6) $3 \frac{1}{2} \div \frac{7}{12} = \dots\dots\dots$ (6 or $\frac{18}{2}$ or $\frac{50}{12}$ or 4)
 (7) $\{3\} \dots\dots\dots \{303, 13\}$ (\in or \notin or \subset or $\not\subset$)
 (8) The chord which passes through the centre of the circle is called
 (a diameter or a radius or a centre or a side)
 (9) $135.42 \div 100 = \dots\dots\dots$
 (13542 or 13.542 or 1.3542 or 1354.2)
 (10) The probability of success of a pupil in an exam is $\frac{4}{5}$, then the probability of his failing is
 ($\frac{1}{2}$ or $\frac{1}{5}$ or $\frac{1}{4}$ or $\frac{2}{9}$)
 (11) $14 \cdot 376 + 15.75 \approx \dots\dots\dots$ (to the nearest hundredth)
 (30.131 or 30.13 or 30.12 or 30.10)
 (12) If $\{5, 3\} - \{3, x\} = \emptyset$, then $x = \dots\dots\dots$
 (0 or 1 or 5 or 3)

(13) In the opposite figure :

..... is a chord in the circle M



(\overline{MC} or \overline{AM} or \overline{AB} or \overline{MB})

(14) $2\frac{1}{4} \times 1\frac{2}{3} = \dots\dots\dots$

($4\frac{1}{4}$ or $3\frac{3}{4}$ or $3\frac{7}{12}$ or $2\frac{2}{12}$)

2 Complete each of the following :

(15) $2.5781 \approx \dots\dots\dots$ (approximate to the nearest hundredth)

(16) When drawing a paper out of five identical papers numbered 1 , 2 , 3 , 4 and 5 , therefore the probability that the drawn paper has a prime number =

(17) X , Y are two sets where $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(18) If M is a circle of radius length 6 cm. and $MA = 6$ cm. , then the point A located the circle M

(19) If $\{3, 5\} = \{1 + x, 3\}$, then $x = \dots\dots\dots$

(20) To draw a circle whose diameter = 7.2 cm. , set the compasses to a length equal to cm.

3 Answer the following :

(21) $3.73 \times 0.8 = \dots\dots\dots$

(22) $18705 \div 435 = \dots\dots\dots$

(23) $178.15 - (9 \times 3.2) \approx \dots\dots\dots$ (approximate to the nearest tenth).

(24) $(471.72 + 8.28) \div 1.5 = \dots\dots\dots$

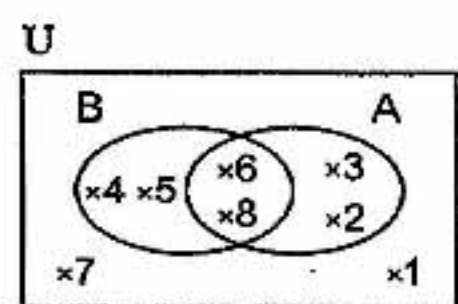
(25) A man bought a TV for L.E. 2000 , He paid L.E. 440 of its cost and paid the remainder on monthly instalments , each of them is equal to L.E. 32.5 Find the number of instalments.

(26) Look at the opposite Venn diagram and find :

[a] $A \cup B$

[b] $A - B$

[c] $(A \cup B)^c$



Final Examinations

- (27) Draw a circle whose centre is M and radius length = 3 cm. Draw diameter \overline{AB} . Label the points C, D and E where MC = 2 cm, MD = 5 cm. and ME = 3 cm. , then complete :
 [a] \overline{ME} is called [b] \overline{AE} is called
 [c] D is located the circle.
- (28) A family consumes 6.5 kgs of meat monthly where the cost of 1 kg of meat is L.E. 138.5 Find what the family pays. Approximate to the nearest pound.

- (29) Draw the triangle ABC in which
 AB = 3 cm. , BC = 4 cm. , CA = 5 cm.
 , then draw perpendiculars from its vertices to the opposite sides and label the point of their intersection.
- (30) Arrange ascendingly : $\frac{2}{3}$, $\frac{3}{4}$, $\frac{1}{2}$ and $\frac{1}{6}$

Model 18

Answer the following questions :

1 Choose the correct answer :

- (1) 1.4×8.6 0.86×14 ($>$ or $<$ or $=$ or \neq)
- (2) If $\{2, 7\} = \{x + 3, 2\}$, then $x =$
 (2 or 4 or 5 or 7)
- (3) $\frac{1}{8} \approx$ (to the nearest $\frac{1}{100}$)
 (0.12 or 0.13 or 0.1 or 1.2)
- (4) $4.83 + 2.1 \approx$ (to the nearest tenth)
 (6.9 or 7 or 6.8 or 6)
- (5) $7 \in \{17, 77\}$ (\checkmark or \times)
- (6) $\{25\}$ $\{2, 5\}$ (\in or \notin or \subset or $\not\subset$)
- (7) The number of altitudes of in any triangle =
 (1 or 2 or 3 or 4)

(8) $5\frac{1}{2} \div 1\frac{3}{8} = \dots\dots\dots$

(2 or 4 or 8 or 6)

(9) The probability of a certain event = $\dots\dots\dots$

(0 or 1 or 2 or 3)

(10) The number of subsets of the set $\{4, 5\}$ equals $\dots\dots\dots$

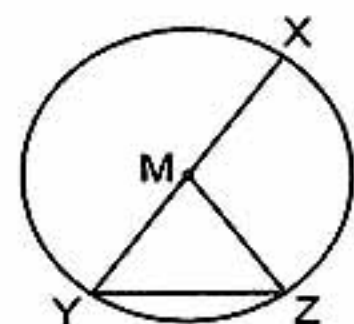
(2 or 3 or 4 or 5)

(11) Which of these is 89.0989 approximated to the nearest hundredth ?

(100 or 90 or 89.1 or 89.9)

(12) $\emptyset \dots\dots\dots \{1, 2\}$ (\in or \notin or \subset or $\not\subset$)(13) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$ (X or Y or \emptyset or \bar{X})(14) $54.593 \approx 54.6$ to the nearest $\dots\dots\dots$ ($\frac{1}{10000}$ or $\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$)**2 Complete the following :**(15) $\{5, a, 8\} = \{b, 9, 8\}$, then $a = \dots\dots\dots$, $b = \dots\dots\dots$ (16) $278.25 - (8 \times 4.5) \approx \dots\dots\dots$ (to the nearest tenth)(17) The triangle which the measures of its angles are 50° , 90° and 40° is called $\dots\dots\dots$ -angled triangle.

(18) In the opposite figure :

[a] $\dots\dots\dots$ is called a diameter in the circle M[b] \overline{YZ} is called a $\dots\dots\dots$ in the circle M[c] Each of \overline{XM} , \overline{YM} and \overline{ZM} is called $\dots\dots\dots$ in the circle M(19) $\{1, 2, 3, 4\} \cap$ The set of the prime numbers = $\dots\dots\dots$ (20) The probability that Khaled wins a game is $\frac{2}{3}$, then the probability of losing the same game is $\dots\dots\dots$ **3 Answer the following :**

(21) $471.72 - 351.4 = \dots\dots\dots$

(22) $37.4 \times 6.8 = \dots\dots\dots$

(23) $54.7 \div 100 = \dots\dots\dots$

(24) $4773 \div 129 = \dots\dots\dots$

(25) Find the area of rectangle whose length is 6.25 cm. and its width is 2.6 cm.

 $\dots\dots\dots$

Final Examinations

(26) Draw the triangle ABC in which $AB = 7$ cm. , $BC = 6$ cm. and $AC = 6$ cm.

(27) By using the opposite figure , find :

[a] $A \cup B$

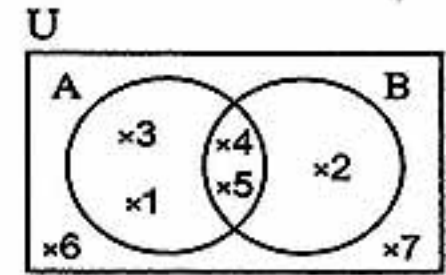
[b] $A - B$

[c] $A \cap B$

[d] $B - A$

[e] A^c

[f] B^c



(28) Arrange in a descending order : $14\frac{1}{4}$, 15.025 , 14.375 and $14\frac{1}{8}$

(29) A box contains 5 white balls , 9 red balls and 6 black balls , if a ball is drawn randomly. Find the probability that the drawn ball is :

[a] White ball

[b] Not white ball.

[c] Yellow ball.

(30) A car covers equal distances in equal times. If this car covered 24.73 km. in one hour. How many km. are covered in $2\frac{1}{2}$ hours ?

Model

19

Answer the following questions :

1 Choose the correct answer :

(1) If $\{4, 8\} = \{1 + y, 4\}$, then $y =$

(3 or 4 or 6 or 7)

(2) The probability of the impossible event =

(\emptyset or 0 or 0.5 or 1)

(3) 572.4 cm. 57.24 m.

(< or = or > or \geq)

(4) 3 $\{13.303\}$

(\subset or $\not\subset$ or \in or \notin)

(5) If $\frac{2}{5} = \frac{a}{15}$, then $a =$

(3 or 5 or 6 or 7)

(6) 5 $\{3, 5\} \cap \{4, 7\}$

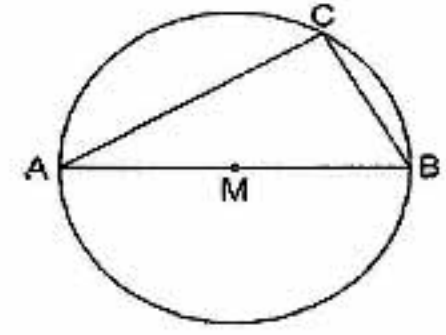
(\in or \notin or \subset or $\not\subset$)

(7) The number of altitudes of any triangle is

(1 or 2 or 3 or 4)

(8) In the opposite figure :

The longest chord in the circle M
is



(\overline{MA} or \overline{AB} or \overline{AC} or \overline{CB})

(9) ten tenths =

(100 or 1 or 10 or 0.1)

(10) $327 \div 24 = 3.27 \div$

(24 or 2.4 or 0.24 or 240)

(11) $\{32, 4\}$ $\{3, 2, 4\}$

(\in or \notin or \subset or $\not\subset$)

(12) If $\{2, a + 2\} \not\subset \{2, 4, 6, 8\}$, then $a =$

(2 or 4 or 6 or 8)

(13) $3.6 \times 100 =$

(0.036 or 36 or 0.36 or 360)

(14) If $X \subset Y$, then $X \cap Y =$

(X or Y or \bar{X} or \bar{Y})

2 Complete each of the following :

(15) 1.53 m. = cm.

(16) $3.367 + 2.26 =$ \approx (to the nearest tenth)

(17) If $\{3, 4\} \subset \{2, 3, a - 1\}$, then $a =$

(18) A circle of radius length 4 cm. , then its diameter length = cm.

(19) $1\frac{1}{2} \div \frac{3}{4} =$

(20) 60 days \approx weeks.

3 Answer the following :

(21) $8.43 \times 0.9 =$ \approx (to the nearest $\frac{1}{100}$)

(22) $39\frac{2}{5} - 7.25 =$ \approx (to the nearest unit)

(23) $4\frac{1}{8} \times 2\frac{2}{3} =$

(24) $\frac{3}{7} \approx$ (to the nearest thousandth)

(25) Rearrange the following numbers in a descending order :

$\frac{1}{2}$, 0.8, $\frac{1}{4}$ and 0.3

Final Examinations

(26) If a car transfers 125 boxes of oranges , how many times can this car transfer 4375 boxes ?

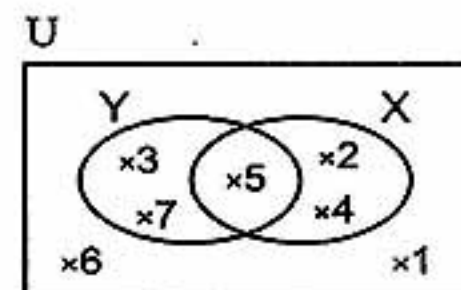
(27) From the opposite figure , find :

[a] $X \cup Y$

[b] $X \cap Y$

[c] $X - Y$

[d] X^c



(28) Write all subsets of the set $\{2, 3\}$

(29) Draw a circle of diameter length 6 cm.

, then draw the diameter \overline{BC} and the chord \overline{BA} of length 3 cm.

(30) A card was drawn from numbered cards from 1 to 10 randomly.
Find the probability of the drawn card to be :

[a] Odd number.

[b] Prime number.

Model

20

Answer the following questions :

1 Choose the correct answer :

(1) $276.532 \approx \dots$ (to the nearest hundredth)

(227 or 276.53 or 276.54 or 276.5)

(2) $27.54 \times \dots = 275.4$

(10 or 100 or 1000 or 10000)

(3) 39 days $\approx \dots$ weeks (to the nearest week)

(5 or 6 or 7 or 8)

(4) $9 \dots \{3, 6, 9, 12\}$

(\in or \notin or \subset or $\not\subset$)

(5) The number of subsets of $\{1, 7\}$ equals \dots

(2 or 3 or 4 or 5)

(6) $\{3, 4\} \dots \{143\}$

(\in or \notin or \subset or $\not\subset$)

(7) If $\{10, 7\} = \{10, x + 4\}$, then $x = \dots$

(3 or 4 or 5 or 6)

- (8) If the radius length of a circle is 2 cm. , then its diameter length is cm. (3 or 4 or 5 or 6)
- (9) $\{5\}$ $\{2, 3, 4, 5\}$ (\in or \notin or \subset or \supset)
- (10) 0.068×1000 0.68×100 ($<$ or $>$ or $=$ or \neq)
- (11) The right-angled triangle has only one altitude. (\checkmark or \times)
- (12) $32.5 \times 7 =$ (2275 or 227.5 or 22.75 or 2.275)
- (13) As throwing a fair die once and observing the appearing number on the upper face , then the probability of appearing a number divisible by 2 is ($\frac{1}{2}$ or $\frac{5}{6}$ or $\frac{2}{3}$ or $\frac{1}{3}$)
- (14) As throwing a metallic coin once , then the probability that a tail appears is ($\frac{1}{4}$ or $\frac{3}{4}$ or 1 or $\frac{1}{2}$)

2 Complete each of the following :

- (15) $1\frac{1}{2} \div 3\frac{3}{4} =$
- (16) $\{5, 6\} \cap \{4, 5\} =$
- (17) The longest chord in the circle is called
- (18) $8.2487 \times 10 =$ \approx (to the nearest hundredth)
- (19) The probability of the sure event =
- (20) The triangle which the lengths of its sides are equal is called

3 Answer the following :

- (21) $5.3 \times 34.7 =$
- (22) $84.61 + 23.473 =$ \approx (to the nearest $\frac{1}{100}$)
- (23) $66.7 \div 10 =$
- (24) A truck can carry 162 boxes. Find the number of trips needed to transport 19 440 boxes.

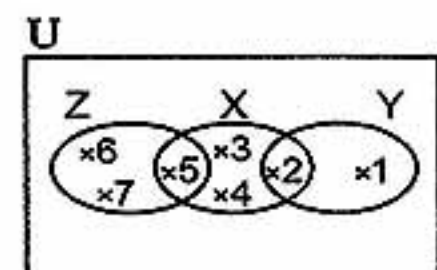
- (25) By using the opposite Venn diagram , find :

[a] $X \cap Z$

[b] $X \cup Y$

[c] $X - Z$

[d] \bar{X}



- (26) Draw the equilateral triangle ABC whose side length is 6 cm. , then draw the three altitudes of this triangle.

Final Examinations

(27) A box contains 20 cards numbered from 1 to 20 , if a card is drawn randomly. Calculate the probability that the drawn card carries :

- [a] An odd number. [b] A number divisible by 7
[c] An even number. [d] A prime number.

(28) Arrange in an ascending order : $\frac{1}{4}$, 0.7 , $\frac{1}{8}$ and 0.33

(29) Write the subsets of $X = \{a , b , c\}$

(30) Put the suitable sign " \in , \notin , \subset or $\not\subset$ " :

- [a] $\{3\}$ $\{6 , 11 , 13 , 30\}$ [b] 2 $\{2 , 7\}$
[c] \emptyset $\{16 , 6\}$ [d] 24 $\{2 , 4\}$

Model

21

Answer the following questions :

1 Choose the correct answer :

- (1) The number of all subsets of the set $A = \{1 , 2\}$ is
(3 or 4 or 5 or 6)
- (2) If the following fractions $\frac{3}{\square}$, $\frac{4}{\square}$ and $\frac{5}{\square}$ are in their simplest form
, then $\square =$
(12 or 13 or 14 or 15)
- (3) $\{1.3\}$ $\{13\}$
(\in or \notin or \subset or $\not\subset$)
- (4) The altitudes of -angled triangle intersect in one point
outside the triangle. (right or acute or obtuse or scalene)
- (5) The diameter of a circle divides it into two congruent parts.
(\checkmark or \times)
- (6) $\frac{1}{3} + \frac{2}{3} =$
(1 or $\frac{3}{6}$ or $\frac{2}{3}$ or $\frac{2}{6}$)
- (7) $\{1 , 2 , 3 , \dots\}$ is set.
(a finite or an infinite or an empty)
- (8) 10 halves \square 15 fifths
($<$ or $>$ or $=$ or \leq)
- (9) The length of the radius = the length of the diameter in the
same circle. (double or half or triple or quarter)

(10) $9.64 \div 4 = \dots\dots\dots$

(241 or 2.41 or 1.96 or 38.56)

(11) $736.592 \approx 736.59$ to the nearest $\dots\dots\dots$

(tens or tenth or hundredth or thousandth)

(12) $\frac{7}{9} \dots\dots\dots 2\frac{1}{9}$

(< or = or > or \geq)

(13) $\emptyset \dots\dots\dots \{0\}$

(\subset or $\not\subset$ or \in or \notin)

(14) The probability of an impossible event = $\dots\dots\dots$

(\emptyset or 1 or 0 or $\frac{1}{2}$)

2 Complete the following :

(15) $35.17 + 4.21 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest tenth)

(16) If $\{1, 5\} \subset \{1, 3, x, 7\}$, then $x = \dots\dots\dots$

(17) 5146 gm. = $\dots\dots\dots$ kg.

(18) The longest chord in the circle is called $\dots\dots\dots$

(19) $\{2, 4, 7\} \cup \{1, 4, 7\} = \dots\dots\dots$

(20) It is $\dots\dots\dots$ that the sun rises from the west.

3 Answer the following :

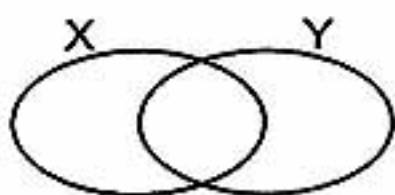
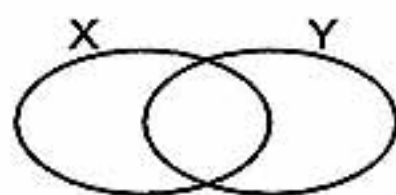
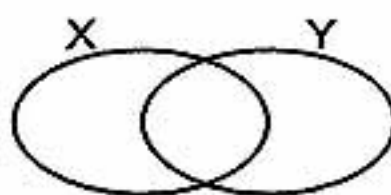
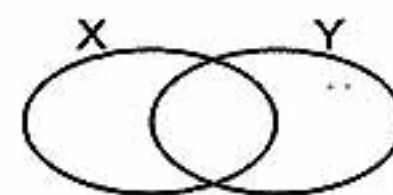
(21) $2\frac{1}{2} \times 1\frac{1}{5} = \dots\dots\dots$

(22) $5328 \div 222 = \dots\dots\dots$

(23) $4.28 + 6.375 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest 0.01)

(24) $6.37 \times 1.4 = \dots\dots\dots$

(25) Write what is represented by shaded part in each diagram :

[a] $\dots\dots\dots$ [b] $\dots\dots\dots$ [c] $\dots\dots\dots$ [d] $\dots\dots\dots$

(26) Draw a circle whose centre is M and radius length is 2.5 cm. , then draw its diameter \overline{AB} and draw its chord \overline{AC} of length 3 cm. , then draw \overline{BC} and find its length.

Final Examinations

(27) If U is the set of whole numbers which less than 10 , $X = \{2, 3, 5\}$ and $Y = \{3, 4, 5, 7\}$, then find :

[a] $X \cap Y$

[b] $X \cup Y$

[c] $X - Y$

[d] X^c

[e] $(Y - X)^c$

(28) If we want to distribute 11 700 pounds equally among 325 persons. Find the share of each one.

(29) Draw the equilateral triangle ABC with side length 5 cm.

(30) As throwing a fair die once , calculate the probability of :

[a] Appearing a number greater than 6

[b] Appearing an even number greater than 4

[c] Appearing an even prime number.

Model

22

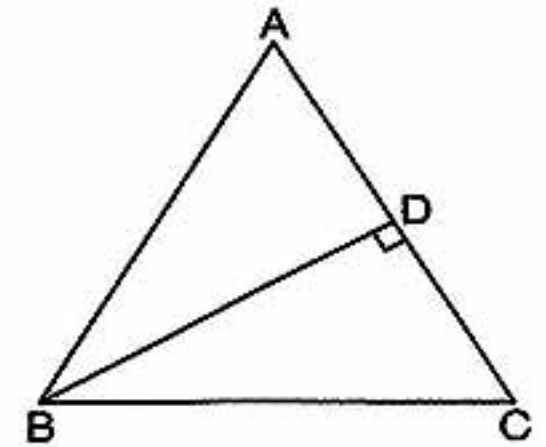
Answer the following questions :

1 Choose the correct answer :

(1) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset or U)

(2) The greatest number in the given is $\dots\dots\dots$ (0.555 or $\frac{3}{5}$ or 0.57 or $\frac{2}{3}$)

(3) In $\triangle ABC$, $\dots\dots\dots$
is the corresponding.
base to the altitude \overline{BD}



(\overline{AB} or \overline{BC} or \overline{AC} or \overline{DC})

(4) $\{35\} \dots\dots\dots \{1, 2, 3, 5\}$ (\in or \notin or \subset or $\not\subset$)

(5) As throwing a fair die once , then the probability of appearing the number 4 equals

($\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{5}{6}$ or $\frac{2}{3}$)

(6) 99.241×100 992.41×10

($>$ or $<$ or $=$ or \neq)

(7) 43 days \approx weeks

(4 or 6 or 5 or 7)

(8) 5 { 15 , 55 }

(\in or \notin or \subset or $\not\subset$)

(9) 572.4 cm. \approx (to the nearest metre)

(5 or 6 or 500 or 600)

(10) If $a \in X$, then a \bar{X}

(\notin or $\not\subset$ or \subset or \in)

(11) 1.25×0.1 $1.25 + 0.1$

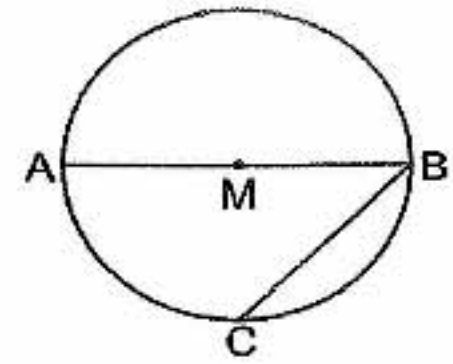
($<$ or $>$ or $=$ or \geq)

(12) The number of altitudes of the right-angled triangle is

(0 or 1 or 2 or 3)

(13) In the opposite figure :

..... is a diameter
in the circle M



(\overline{AM} or \overline{BC} or \overline{BM} or \overline{AB})

(14) $\frac{2}{3}$ $\frac{3}{4}$

($>$ or $=$ or $<$ or \geq)

2 Complete the following :

(15) \emptyset { x , y }

(16) $806.5 \div 100 =$

(17) If $X \subset Y$, then $X \cup Y =$

(18) The longest chord in the circle is called

(19) If $8 \in \{3 , 7 , x\}$, then $x =$

(20) As tossing a metallic coin once , then the probability of appearing a head =

Final Examinations

3 Answer the following :

(21) $30.374 + 21.8 = \dots \approx \dots$ (to the nearest $\frac{1}{100}$)

(22) $12 \frac{1}{2} \div 4 \frac{1}{4} = \dots$

(23) $34.125 \times 100 = \dots$

(24) $2.7 \times 0.5 = \dots$

(25) $\{3, 4, 7\} \cup \{2, 4, 7\} = \dots$

(26) Arrange the following numbers descendingly :

3.4 , 0.0333 , 0.3033 and 0.3303

(27) A truck can hold 125 boxes of oranges at a time. How many times are needed to deliver 4375 boxes by that truck ?

(28) If the universal set $U = \{x : x \text{ is an odd number less than } 15\}$, $X = \{1, 3, 5\}$, $Y = \{1, 5, 9, 13\}$ Draw Venn diagram which represents the sets U , X , Y , thenfind : $X \cap Y$, $X - Y$ and Y

(29) A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in size , if a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] White.

[b] White or red.

(30) Draw the triangle ABC in which

 $AB = BC = 6 \text{ cm.}$ and $m(\angle B) = 60^\circ$, then draw $\overline{AD} \perp \overline{BC}$ which intersectsit at D , then find the length of \overline{AD}

Model

23

Answer the following questions :

1 Choose the correct answer :

(1) $355 \div 18 = 3.55 \div \dots$

(1.8 or 0.18 or 18 or 1800)

(2) $\{7, 2\} \dots \{1, 2, 4, 17\}$

(\in or \notin or \subset or $\not\subset$)

(3) $5.3746 \approx \dots$ (to the nearest 0.01)

(5.38 or 5.375 or 5.37 or 5.374)

(4) The probability of the impossible event =

(\emptyset or 0 or $\frac{1}{2}$ or 1)

(5) $\{3\}$ $\{1, 3, 5\}$

(\in or \notin or \subset or $\not\subset$)

(6) The number of altitudes of any triangle is

(zero or 1 or 2 or 3)

(7) $32.25 \times 100 =$ (3225 or 32250 or 322.5 or 0.3225)

(8) The longest chord in the circle is called

(a diameter or a side or a radius or a centre)

(9) 43 days \approx weeks (to the nearest week)

(4 or 5 or 6 or 7)

(10) If $6 \in \{2, 2x, 7\}$, then $x =$

(2 or 3 or 4 or 6)

(11) The triangle which the measures of its angles are 50° , 90° and 40° is called -angled triangle.

(acute or right or obtuse or isosceles)

(12) If $X - Y = \emptyset$, then X Y

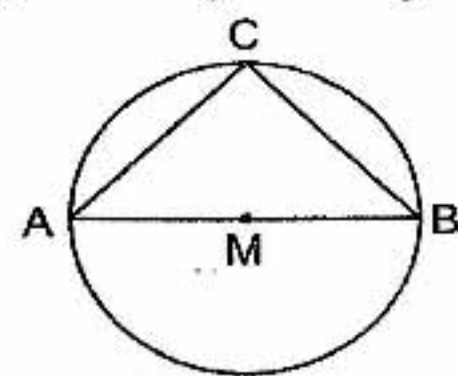
(\in or \notin or \subset or $\not\subset$)

(13) As throwing a fair die once and observing the appearing number on the upper face, then the probability of appearing an odd number is

($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{5}{6}$ or $\frac{1}{6}$)

(14) In the opposite figure :

$AM = \frac{1}{2}$



(AC or MB or BC or AB)

2 Complete the following :

(15) The set of digits of the number 30 772 is

(16) 7.657 m. = cm.

(17) $A \cup \bar{A} =$

Final Examinations

(18) $\frac{5}{7} \times \dots = 1$

(19) As tossing a metallic coin once , the probability of appearing a tail is

(20) The set factors of the number 6 \cap the set of prime numbers =**3 Answer the following :**(21) $26.274 + 23.28 = \dots \approx \dots$ (to the nearest 2 decimal places)(22) $3456.821 - 188.725 = \dots \approx \dots$ (to the nearest 0.1)(23) $11655 \div 555 = \dots$

(24) $\frac{3}{4} \times \frac{10}{6} = \dots$

(25) $1.73 \times 2.8 = \dots$

(26) $\{3, 5, 4\} - \{2, 4, 5, 7\} = \dots$

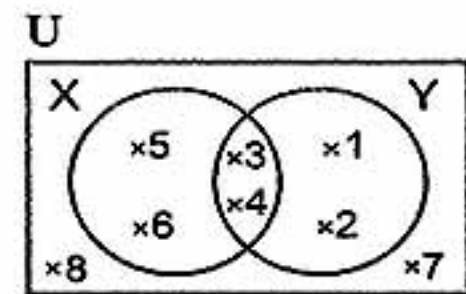
(27) From the opposite Venn diagram , find by listing method :

[a] $X \cup Y$

[b] $X \cap Y$

[c] $X - Y$

[d] X^c

(28) If the price of a piece of sweet is 2.25 pounds.
What is the price of 25 pieces of the same kind ?
.....

(29) A box contains 4 blue , 3 red balls and 7 yellow balls. A ball is drawn randomly from the box , find the probability of :

[a] Blue ball.

[b] Not yellow.

(30) Draw a circle M of radius length 5 cm.
, then draw the diameter \overline{AB} and the chord \overline{AC}
of length 6 cm. , then draw \overline{BC} and find its length.

Model 24

Answer the following questions :

1 Choose the correct answer :

- (1) The probability of that elephant flies =
(1 or 0 or $\frac{1}{2}$ or 2)
- (2) $7 \dots \{17, 77\}$ (\notin or \in or \subset or $\not\subset$)
- (3) The sum of the measure of the angles of a triangle =°
(118 or 90 or 180 or 108)
- (4) $67.5 - 24.38 = \dots$ (43.21 or 43.12 or 43.28 or 43.2)
- (5) The diameter length of the circle of radius length 3 cm. = cm.
(1 or 2 or 3 or 6)
- (6) Perimeter of square = side length \times
(1 or 2 or 3 or 4)
- (7) The number of subsets of the set $\{4, 5\}$ equals
(2 or 3 or 4 or 5)
- (8) The greatest number in the following is
(0.111 or 1.023 or 0.12 or 0.123)
- (9) $63.7 \div 100 = \dots$ (6.370 or 637 or 0.637 or 63.70)
- (10) $\{45\} \dots \{4, 5\}$ (\in or \notin or \subset or $\not\subset$)
- (11) The reciprocal of $2\frac{3}{7}$ is ($\frac{17}{7}$ or $\frac{7}{17}$ or $\frac{6}{7}$ or $\frac{5}{17}$)
- (12) The chord which passes through the centre of the circle is called
(a diameter or a radius or a centre or a side)
- (13) If $\{7, x\} = \{y, 3\}$, then $x + y = \dots$
(7 or 3 or 4 or 10)
- (14) As tossing a metallic coin once, then the probability of appearing
a head or a tail = ($\frac{1}{2}$ or 0 or 1 or 0.4)



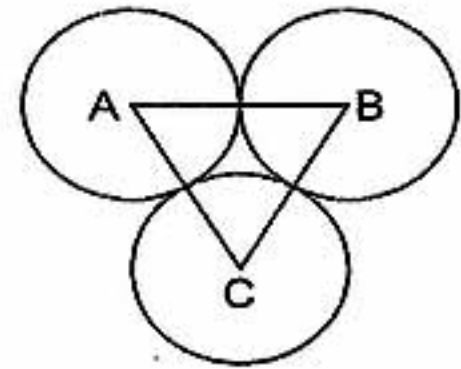
Final Examinations

2 Complete the following :(15) $\{2, 4, 6\} \cap$ the set of the odd numbers =(16) $2 \frac{3}{4} \div 1 \frac{3}{8} = \dots\dots\dots$

(17) To draw a circle of diameter length 12 cm. , then the opening distance of the compasses should be cm.

(18) $17.025 + 6.35 \approx \dots\dots\dots = \dots\dots\dots$ (to the nearest $\frac{1}{100}$)

(19) A subset of the sample space is

(20) If $A \subset B$, then $A - B = \dots\dots\dots$ **3 Answer the following :**(21) $10019 \div 233 = \dots\dots\dots$ (22) $\{4, 6, 9\} - \{1, 6, 7\} = \dots\dots\dots$ (23) $6 \frac{1}{4} \times 3 \frac{1}{5} = \dots\dots\dots$ (24) $853.6 \times 100 = \dots\dots\dots$ (25) If $\frac{1}{3} < \frac{x}{12} < \frac{2}{3}$ where x is an even number , find the value of x
.....**(26) In the opposite figure :**Three circles of centres A , B and C
of radius length 4 cm. for each.Find the perimeter of $\triangle ABC$
.....(27) Represent the two sets $A = \{1, 2, 3, 6\}$
and $B = \{2, 3\}$ by Venn diagram , then
find : $A \cap B$, $A \cup B$, $A - B$ (28) Find the area of the rectangle whose length is 6.25 m. and its width is 2.5 m. to the nearest hundredth.
.....

(29) As throwing a fair die once , calculate the probability of appearing :

[a] A number greater than 3

[b] A number greater than or equal to 3.

[c] An odd prime number.

[d] A number divisible by 2

- (30) Draw $\triangle ABC$ where $AB = 6$ cm. ,
 $BC = 8$ cm. and $CA = 10$ cm.
 Bisect \overline{AC} at M , then draw a circle
 of radius length 5 cm.
 and M is its centre , then :
 [a] Find two equal line segments
 in length is the circle M
 [b] What is the name of \overline{AC} ?

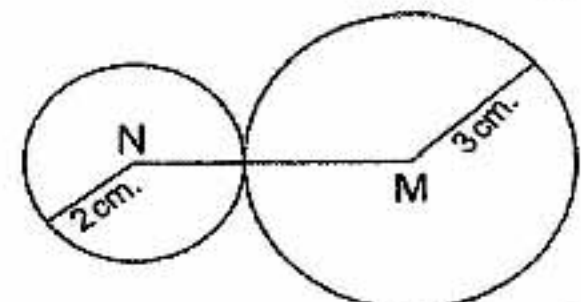
Model

25

Answer the following questions :

1 Choose the correct answer :

- (1) 8.46 dm. = cm. (846 or 0.846 or 84.6 or 8 460)
 (2) The product of a fraction and its reciprocal is
 (1 or 2 or 0 or 3)
 (3) $\{8, 1\}$ $\{1, 8\}$ (\in or \notin or \subset or $\not\subset$)
 (4) The number of altitudes in any triangle =
 (1 or 2 or 3 or 4)
 (5) $12 \times 2\frac{3}{4} =$ (12 or 22 or 33 or 44)
 (6) $A \cap \bar{A} =$ (U or A or \emptyset or \bar{A})
 (7) $\{1, 2\}$ the set of prime numbers.
 (\subset or $\not\subset$ or \in or \notin)
 (8) Any line segment connects between any two points on the circle is
 called (diameter or radius or chord or centre)
 (9) If $\frac{3}{7} = \frac{a}{56}$, then $a =$ (168 or 392 or 24 or 8)
 (10) $\frac{7}{13}$ $\frac{5}{13}$ ($<$ or $=$ or $>$ or \leq)
 (11) If $5 \in \{2, x + 4, 7\}$, then $x =$ (1 or 5 or 9 or 13)
 (12) In the opposite figure :
 M and N are two circles
 , then length of $\overline{MN} =$ cm.

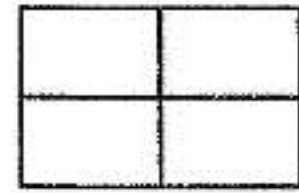


(5 or 6 or 7 or 10)

Final Examinations

(13) In the opposite figure :

The number of rectangles is



(4 or 6 or 8 or 9)

(14) The probability of getting an even number when rolling a die

once =

($\frac{1}{6}$ or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{5}{6}$)**2 Complete each of the following :**

(15) All radii are in the same circle.

(16) The number of elements of the null set =

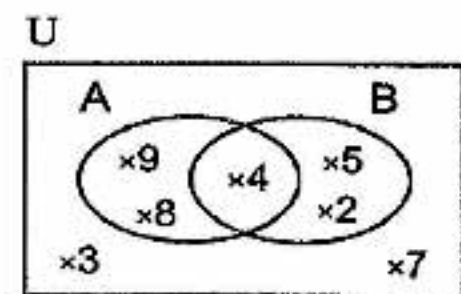
(17) The altitudes of the right-angled triangle intersect at one point located at

(18) A letter is selected randomly from the word "Habiba" , then the probability of selecting the letter "A" is

(19) If X and Y belong to the circle M where $M \in \overline{XY}$, then \overline{XY} is called a in the circle.(20) $\frac{4}{7} \approx$ (to nearest thousandth)**3 Answer the following :**(21) $18.76 + 25.3 =$ (22) $542.42 \div 100 =$ (23) $0.543 \times 2.3 =$ (24) $\frac{7}{24} \div 3 \frac{1}{2} =$

(25) The opposite figure is a Venn diagram.

List each of the following :

[a] $A \cap B$ [b] $A \cup B$ [c] $A - B$ [d] \bar{A} 

(26) Arrange the following numbers in an ascending order :

 $\frac{1}{2}$, 0.8 , $\frac{1}{4}$ and 0.3

(27) Draw the triangle ABC in which

$AB = 8 \text{ cm.}$, $BC = 6 \text{ cm.}$ and $AC = 10 \text{ cm.}$

What is the type of $\triangle ABC$

according to its angles ?

(28) A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in size. If a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] White.

[b] Red.

[c] Not white.

[d] White or red.

(29) A barrel has 113.75 litres. of oil and we want to distribute the oil in bottles where every bottle holds 1.25 litres. Find the number of bottles are needed for that.

(30) Draw a circle M of diameter length 6 cm.

, then draw the two radii \overline{MA} and \overline{MB}

where $m(\angle AMB) = 60^\circ$ and draw \overline{AB}

, find :

[a] The length of \overline{AB}

[b] $m(\angle A)$

Some Schools' Examinations from Different Governorates

1 Cairo Governorate

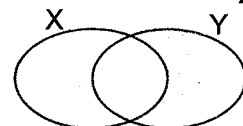
East Nasr City Educational Zone
Al-Ola Language Modern School



Answer the following questions :

1 Choose the correct answer :

- (1) $22.22 \div 2 = \dots\dots\dots$ (11.11 or 10.01 or 22.22 or 1.111)
- (2) $\{2, 3, 6, 12\} \cap$ the set of factors of the number 6 = $\dots\dots\dots$
({2, 3, 12, 6} or {3, 6} or {4, 6} or {2, 3, 6})
- (3) $1\frac{1}{2} \div \frac{1}{4} = \dots\dots\dots$ (2 or 6 or 12 or $\frac{3}{8}$)
- (4) If the probability of pupil's success is $\frac{8}{10}$, then the probability of his failure is $\dots\dots\dots$ ($\frac{1}{8}$ or $\frac{3}{10}$ or $\frac{1}{5}$ or 1)
- (5) $8.25 \div 8 \approx \dots\dots\dots$ (to the nearest tenth)
(101 or 1 or 1.01 or 10.1)
- (6) The longest chord in a circle is called a $\dots\dots\dots$
(chord or radius or tangent or diameter)
- (7) 5 hours + 29 minutes + 60 seconds = $\dots\dots\dots$ hours.
(5 or 5.3 or $5\frac{1}{2}$ or 6)
- (8) If $\{7, 10\} \subset \{10, x + 3\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 10)
- (9) The smallest fraction in the following is $\dots\dots\dots$
($\frac{1}{3}$ or $\frac{5}{8}$ or $\frac{2}{9}$ or $\frac{2}{5}$)
- (10) $\frac{1}{25} \times 50 \times 0.25 = \dots\dots\dots$ (4 or $\frac{1}{4}$ or $\frac{1}{2}$ or 2)
- (11) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 or $\frac{1}{2}$ or 3 or $\frac{3}{2}$)
- (12) In any triangle , the number of its altitudes = $\dots\dots\dots$
(1 or 2 or 3 or 4)
- (13) The shaded part represents $\dots\dots\dots$



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(14) $10 \times 4.72 \square 100 \times 0.472$

(< or > or =)

2 Complete :

- (15) If $X = \{2, 5, 4\} \cap \{5, 3, 7\}$, then 1 $\dots\dots\dots$ X
- (16) A circle is of diameter length 28 cm.
 , then its radius length = $\dots\dots\dots$ cm.

- (17) 3.26 m. = km.
 (18) The probability of the sure event is
 (19) If $X \subset Y$, then $X - Y =$
 (20) 3 the set of factors of the number 18
 (21) The number of days in 254 hours equals approximately
 (22) $8.43 \times 0.9 =$ \approx (to the nearest $\frac{1}{100}$)

3 Answer the following :

- (23) A bag contains 5 white balls , 9 red balls and 6 black balls. All the balls are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is :

[a] White ?

[b] Not red ?

- (24) Draw the triangle ABC in which
 AB = 3 cm. , BC = 4 cm. and
 AC = 5 cm. , then draw the circle M
 whose diameter is \overline{AC}

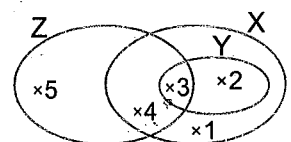
- (25) The length of a piece of cloth is 9.25 m. , 12 towels are made of it and the length of towel is 0.75 m. How many metres are remainder ?

- (26) Use the opposite Venn diagram to write each of the following sets :

[a] $X \cap Y =$

[b] $X \cup Y =$

[c] $Z - (X \cap Y) =$



2 Cairo Governorate

Maadi Educational Directorate
 Victory College Maadi



Answer the following questions :

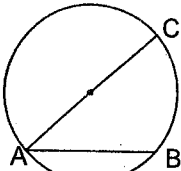
1 Choose the correct answer :

- (1) $71.5 \div$ = 0.715 (10 or 100 or 1000 or 10000)

- (2) If $9 \in \{3, 5, x\}$, then $x = \dots\dots\dots$ (3 or 5 or 7 or 9)
- (3) The number of altitudes of any triangle = $\dots\dots\dots$ (1 or 2 or 3 or 4)
- (4) 2600 gm. \approx $\dots\dots\dots$ kg. (to the nearest kg.) (2 or 3 or 4 or 6)
- (5) $2\frac{4}{5}$ \square 2.16 ($>$ or $<$ or $=$ or \leq)
- (6) If $X = \{1, 2\}$ and $Y = \{5\}$, then $X \cup Y = \dots\dots\dots$
 ($\{1, 2, 5\}$ or $\{1, 5\}$ or \emptyset or $\{2\}$)
- (7) 55 $\dots\dots\dots$ $\{5, 505\}$ (\in or \notin or \subset or $\not\subset$)

2 Choose the correct answer :

- (1) $5.037 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$) (5 or 5.0 or 5.03 or 5.04)
- (2) $\emptyset \dots\dots\dots \{2, 4, 6\}$ (\in or \notin or \subset or $\not\subset$)
- (3) $1.8 \times 5 = \dots\dots\dots$ (9 or 9.5 or 1.85 or 18.5)
- (4) $98.7 \times 100 = \dots\dots\dots$ (9.87 or 987 or 9870 or 0.987)
- (5) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset or $X - Y$)

- (6)  \overline{AB} is called $\dots\dots\dots$
 (radius or diameter or chord or circle)

- (7) $54.523 \approx 54.5$ (to the nearest $\dots\dots\dots$)
 ($\frac{1}{1000}$ or $\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{10000}$)

3 Complete :

- (1) When tossing a die once, the probability of appearing an odd number = $\dots\dots\dots$
- (2) $1\frac{2}{3} \times 1\frac{1}{5} = \dots\dots\dots$
- (3) Any chord passing through the centre of the circle is called $\dots\dots\dots$
- (4) If $\{2, a\} = \{7, b\}$, then $a = \dots\dots\dots$ and $b = \dots\dots\dots$
- (5) A circle of diameter length 3 cm., then its radius length = $\dots\dots\dots$ cm.
- (6) $25.25 \div 0.25 = \dots\dots\dots$
- (7) If $\{3\} \subset \{x + 1, 5\}$, then $x = \dots\dots\dots$
- (8) $25.71 + 3.5 = \dots\dots\dots$

4 [a] Find the result of :

$0.675 \times 2.3 = \dots \approx \dots$ (to the nearest thousandth)

[b] A box contains identical balls , 6 balls are white , 9 red and 4 yellow.

Find the probability that the chosen ball is :

(1) Red =

(2) Not yellow =

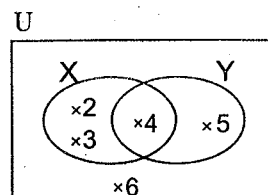
5 [a] From the opposite figure, find :

(1) $X \cup Y = \dots$

(2) $X \cap Y = \dots$

(3) $Y - X = \dots$

(4) $X^c = \dots$



[b] Draw the triangle ABC in which

AB = BC = 6 cm. and AC = 4 cm.

3 Cairo Governorate

El-Nozha Educational Zone
El-Nasr Schools



Answer the following questions :

1 Choose the correct answer :

(1) $674.8 \div \dots = 67.48$ (100 or 10 or 1000 or 10000)

(2) If $7 \in \{2, 3, x - 1\}$, then $x = \dots$ (7 or 6 or 8 or 3)

(3) $3.43 \approx 3.4$ is approximated to the nearest
(ten or unit or 0.01 or $\frac{1}{10}$)

(4) The radius length of a circle equals the diameter length.
(twice or half or double or $\frac{1}{3}$)

(5) $97.2 \div 9 = \dots$ (1.8 or 1.08 or 10.8 or 108)

(6) The altitudes of the triangle intersect at point(s).
(1 or 2 or 3 or 4)

(7) 1.2 kg. = gm. (12 or 120 or 1200 or 0.012)

(8) If $\frac{2}{23} < \frac{x}{23} < \frac{4}{23}$, then $x = \dots$ (3 or 4 or 5 or 6)

(9) $\{5, 7, 9\} \cup \{3, 4, 5\} = \dots\dots\dots$

($\{7, 9\}$ or $\{5\}$ or $\{3\}$ or $\{3, 4, 5, 7, 9\}$)

(10) $4\frac{1}{2} \times \dots\dots\dots = 1$

($\frac{1}{2}$ or $\frac{9}{2}$ or 2 or $\frac{2}{9}$)

(11) If $\{3, 5\} = \{x, 3\}$, then $x = \dots\dots\dots$

(3 or 5 or 2 or 4)

(12) $\frac{1}{2} \div \frac{1}{12} = \dots\dots\dots$

($\frac{1}{24}$ or 24 or 12 or 6)

(13) $\{9, 11, 13\} - \{3, 11, 14\} = \dots\dots\dots$

($\{5, 2\}$ or $\{3\}$ or $\{11\}$ or $\{9, 13\}$)

(14) $\frac{21}{7} \dots\dots\dots \{1, 3, 5, 7\}$

(\in or \notin or \nsubseteq or \subset)

2 Complete each of the following :

(15) $\frac{2}{3} \approx \dots\dots\dots$ (to the nearest tenth)

(16) $X \cap X^c = \dots\dots\dots$

(17) If $\frac{7}{14} = \frac{x}{2}$, then $x = \dots\dots\dots$

(18) The diameter is a $\dots\dots\dots$ passing through the $\dots\dots\dots$

(19) $1.7 \times 0.04 = \dots\dots\dots$

(20) When tossing a coin once, then the probability of appearing a head = $\dots\dots\dots$

(21) The altitudes of the obtuse-angled triangle intersect at one point $\dots\dots\dots$ the triangle.

(22) $\{1, 2, 3\} \cup \{3, 8\} = \dots\dots\dots$

3 Answer the following :

(23) In a school there are 400 pupils, 173 of them are boys, the rest are girls. Find the probability of chosen pupil is girl.

$\dots\dots\dots$

(24) Find a number when multiplied by 0.25, then the product is 3.25

$\dots\dots\dots$

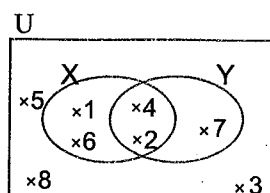
(25) Look at Venn diagram, then find :

[a] $X - Y = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$

[c] $Y^c = \dots\dots\dots$

[d] $(X \cup Y)^c = \dots\dots\dots$



- (26) Draw a circle M whose radius length is 4 cm. , where \overline{MA} is a radius , then draw the chord \overline{AB} , where $AB = 5$ cm. Find the type of $\triangle AMB$ according to its side lengths.

4 Cairo Governorate

Rod El-Farag Educational Zone
St. Mary's School



Answer the following questions :

1 Choose the correct answer :

- (1) If $4 \in \{1, 2, 2x\}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)
- (2) $\{7, 8\} \dots\dots\dots \{5, 7, 10\}$ (\in or \subset or \notin or $\not\subset$)
- (3) In any triangle, the number of its altitudes = $\dots\dots\dots$ (1 or 2 or 3 or 4)
- (4) Any chord passing through the centre of a circle is called $\dots\dots\dots$
(diameter or radius or chord or otherwise)
- (5) $\{32\} \dots\dots\dots \{3, 2\}$ (\in or \subset or \notin or $\not\subset$)
- (6) $2\frac{1}{3} \div \frac{5}{3} = \dots\dots\dots$ ($\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{3}{7}$ or $\frac{5}{2}$)
- (7) $9\frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth) (0.9 or 9.2 or 9.11 or 9.1)
- (8) $\{2, 3, 6, 12\} \cap$ the set of factors of the number 6 = $\dots\dots\dots$
($\{3, 6\}$ or $\{4, 6\}$ or $\{2, 3, 6\}$ or $\{2, 3, 6, 12\}$)
- (9) $4\frac{1}{8} \times 2\frac{2}{3} = \dots\dots\dots$ (1 or 10 or 11 or 111)
- (10) $\frac{5}{8} \square 0.5734$ ($>$ or $=$ or $<$ or \leq)
- (11) $0.472 \times 100 \square 4.72 \times 10$ ($>$ or $=$ or $<$ or otherwise)
- (12) $(2\frac{1}{4} + \frac{3}{4}) \div \frac{3}{7} = \dots\dots\dots$ (2 or 5 or 7 or 20)

2 Complete the following :

- (13) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$
- (14) $\{2, 3, 5\} \cap \{1, 3, 5\} = \dots\dots\dots$
- (15) $4.86 \div 0.9 = \dots\dots\dots$

(16) $\frac{3}{25} \div 0.012 = \dots\dots\dots$

(17) The probability of the sure event = $\dots\dots\dots$

(18) The altitudes in obtuse-angled triangle intersect at the point that $\dots\dots\dots$

(19) $(7.65 - 3.4) \times 100 = \dots\dots\dots$

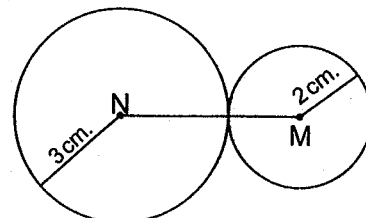
(20) If $\{6, a, 2\} = \{b, 3, 2\}$, then $a = \dots\dots\dots$, $b = \dots\dots\dots$

(21) $2.345 \times 0.14 \approx \dots\dots\dots$ (to the nearest hundredth)

(22) In the opposite figure :

M, N are two circles, then

MN = $\dots\dots\dots$ cm.



3 Answer the following :

(23) A box contains 18 cards numbered from 1 to 18. Randomly a card has been selected. Calculate the probability of selecting :

[a] A prime number.

[b] A number divisible by 5

(24) If the price of one metre of cloth is L.E. 3.25, what is the cost of 2.5 metres of cloth ?

(25) If $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$

, $X = \{1, 3, 4, 7\}$, $Y = \{1, 2, 3, 6\}$

Draw a Venn diagram that represents

the sets U , X and Y and then find : $X \cap Y$

$X \cap Y = \{\dots\dots\dots\}$

(26) Draw the ΔABC where $AB = 4$ cm.

, $BC = 3$ cm. and $CA = 5$ cm.

, then draw its altitudes.

What is the type of ΔABC according to its sides.

5 Cairo Governorate

Al-Khalifa and Al-Mokatam Educational Zone
AL Helmia Experimental Lang. School



Answer the following questions :

1 Choose the correct answer :

- (1) $3.75 \times 100 = \dots\dots\dots$ (0.375 or 375 or 3705 or 0.0375)
 (2) If $7 \in \{6, x + 1\}$, then $x = \dots\dots\dots$ (6 or 7 or 8 or 5)
 (3) Number of altitudes of the right-angled triangle is $\dots\dots\dots$
 (0 or 1 or 2 or 3)
 (4) $\{1, 3\} \cap \{2, 3\} = \dots\dots\dots$ (\emptyset or $\{3\}$ or $\{1\}$ or $\{1, 2, 3\}$)
 (5) 52 days $\approx \dots\dots\dots$ weeks. (6 or 8 or 7 or 5)
 (6) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset or \bar{X})
 (7) $625 \div 25 = 6.25 \div \dots\dots\dots$ (2.5 or 0.25 or 25 or 250)

2 Choose the correct answer :

- (8) $\frac{1}{3} \div \frac{2}{7} = \dots\dots\dots$ ($1\frac{1}{6}$ or $\frac{6}{7}$ or $\frac{2}{21}$ or $\frac{13}{21}$)
 (9) $\{7\} \dots\dots\dots \{3, 5, 7\}$ (\in or \notin or \subset or $\not\subset$)
 (10) 40 gm. = $\dots\dots\dots$ kg. (40000 or 0.4 or 4000 or 0.04)
 (11) If $\frac{a}{8} = \frac{15}{24}$, then $a = \dots\dots\dots$ (9 or 5 or 3 or 10)
 (12) Number of subsets of the set $A = \{3, 5\}$ is $\dots\dots\dots$
 (4 or 3 or 2 or 1)
 (13) The triangle whose measures of its angles are $(20^\circ, 100^\circ, 60^\circ)$
 is called $\dots\dots\dots$ triangle.
 (acute-angled or right angled or obtuse-angled or isosceles)
 (14) If $\frac{5}{7} < \frac{x}{7} < 1$, then $x = \dots\dots\dots$ (4 or 5 or 6 or 7)

3 Complete each of the following :

- (15) $12.34 + 15.172 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest hundredth)
 (16) $\{1, 2, 4\} - \{2, 4, 6\} = \dots\dots\dots$

- (17) The probability of the certain event is
- (18) The radius length of a circle whose its diameter length is 5 cm. is cm.
- (19) If $\{2, x\} = \{5, y\}$, then $x = \dots\dots\dots$, $y = \dots\dots\dots$
- (20) The longest chord in the circle is called
- (21) $4.7896 \approx \dots\dots\dots$ (to the nearest thousandth)
- (22) $8855 \div 253 = \dots\dots\dots$

4 Answer the following :

- (23) Arrange in an ascending order :

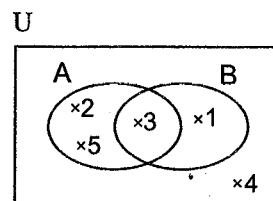
$$0.6, \frac{3}{4}, \frac{1}{2} \text{ and } \frac{2}{3}$$

The order is :,, and

- (24) By using the opposite figure , find :

[a] $A \cup B = \dots\dots\dots$

[b] $\bar{A} = \dots\dots\dots$



- (25) A die tossed once , find the probability of getting :

[a] An even number.

[b] A number divisible by 3

- (26) Draw $\triangle ABC$ where

$BC = 8 \text{ cm.}, AB = AC = 5 \text{ cm.}$

6 Cairo Governorate

Western Cairo Educational Zone
Mathematics Inspection



Answer the following questions :

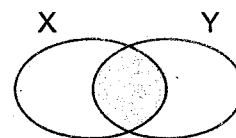
1 Choose the correct answer :

- (1) $3.36 \text{ km.} = \dots\dots\dots \text{ m.}$ (3.306 or 33.6 or 336 or 3360)
- (2) $52.241 \times 100 = \dots\dots\dots$ (522.41 or 52241 or 5224.1 or 522410)

(3) $\{52\}$ $\{5, 2\}$ (\in or \notin or \subset or $\not\subset$)

(4) $\frac{5}{8}$ 0.5734 ($<$ or $>$ or $=$ or otherwise)

(5) The shaded part



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $X \subset Y$)

(6) A circle, its radius length = 1 cm., then its diameter length = cm.

(1 or 2 or 3 or 4)

(7) $\frac{1}{3} \times \frac{3}{4} =$ ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{4}{12}$)

(8) If $3 \in \{x + 1, 5\}$, then $x =$ (1 or 2 or 3 or 4)

(9) $\frac{4}{12} \div \frac{6}{12} =$ ($\frac{2}{3}$ or $\frac{4}{3}$ or $\frac{1}{12}$ or $\frac{4}{12}$)

(10) $\{1, 3, 4\} - \{3, 4\} =$ ($\{1\}$ or $\{3\}$ or $\{4\}$ or $\{3, 4\}$)

(11) If $a \in X$, then a \bar{X} (\in or \notin or \subset or $\not\subset$)

(12) The right-angled triangle has altitudes. (1 or 2 or 3 or 4)

(13) If $\frac{2}{3} = \frac{a}{12}$, then $a =$ (3 or 4 or 8 or 12)

(14) $46.762 \approx$ (to the nearest hundredth)
(46.762 or 46.8 or 47 or 46.76)

2 Complete the following :

(1) The probability of the certain event =

(2) All the radii of the circle are

(3) $3978 \div$ = 3.978

(4) $84.61 + 23.473 =$

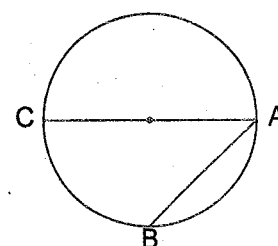
(5) \emptyset $\{0\}$

(6) In the opposite figure :

\overline{AB} is called of the circle.

(7) The set of the digits of the number 7353 is

(8) $2.64 \times 0.2 =$



3 Answer the following :

(1) A box contains identical balls where 6 balls are white , 9 red balls and 5 black balls. If one ball is chosen randomly , what is the probability that the chosen ball is white ?
.....

(2) Arrange in a descending order :

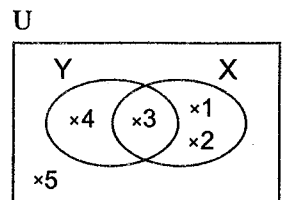
$$4.5 \quad , \quad 4\frac{1}{4} \quad , \quad 5\frac{3}{4} \quad \text{and} \quad 5\frac{1}{2}$$

The order is : , and

(3) From the opposite Venn diagram , find :

[a] $X \cup Y = \dots\dots\dots$

[b] $\bar{Y} = \dots\dots\dots$



(4) Draw the triangle ABC in which

AB = 3 cm. , BC = 4 cm. and AC = 5 cm.

7 Giza Governorate

Al-Agoza Educational Directorate
Baby Palace Private School



Answer the following questions :

1 Choose the correct answer :

(1) $9\frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(2) $1\frac{1}{8} \div 1\frac{1}{8} = \dots\dots\dots$ (1 or 10 or 11 or 111)

(3) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 or 2 or 3 or $\frac{3}{2}$)

(4) $\frac{5}{8} \square 0.5734$ (> or < or = or \leq)

(5) 43 days $\approx \dots\dots\dots$ weeks (to the nearest week) (4 or 5 or 6 or 7)

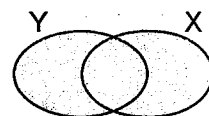
(6) $4.6 \div 4.6 \square 0.1$ (> or < or \leq or =)

(7) The smallest number of the following numbers is

(0.111 or 0.12 or 0.123 or 1.0123)

(8) If $4 \in \{3, 5, x\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 6)

- (9) The suitable symbol represents the shaded part in the shape is



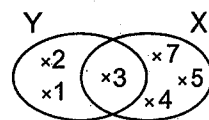
($X \cap Y$ or $X \cup Y$ or $Y \subset X$ or $X \subset Y$)

- (10) $\{50\}$ $\{2, 5\}$

(\in or \notin or \subset or $\not\subset$)

- (11) In the opposite figure :

$Y \cap X =$



($\{7, 5, 4\}$ or $\{1, 2\}$ or $\{3\}$ or $\{1, 2, 3\}$)

- (12) If X is the set of odd numbers , then 36 X

(\in or \notin or \subset or $\not\subset$)

- (13) The number of altitudes of an acute-angled triangle is

(1 or 2 or 3 or 4)

- (14) The triangle whose measures of its angles are $(50^\circ, 90^\circ, 40^\circ)$ is called triangle.

(an acute-angled or an obtuse-angled or a right-angled or otherwise)

2 Complete :

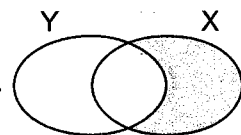
- (1) If $\frac{b}{8} = \frac{15}{24}$, then $b =$

- (2) $3978 \div$ = 3.978

- (3) The number $4.7398 \approx$ (to the nearest hundredth)

- (4) If X , Y are two sets , $X \subset Y$, then $X \cap Y =$

- (5) The shaded part in the opposite figure represents



- (6) Length of diameter of the circle whose radius length is 1 cm.
= cm.

- (7) The longest chord in the circle is the

- (8) The probability of appearing a head when tossing a coin once =

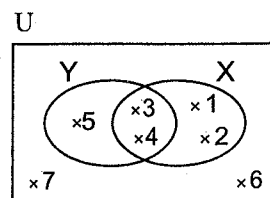
3 Answer the following :

- (1) Find : $1.775 \times 0.15 =$

- (2) In the opposite figure , complete :

[a] $X \cap Y =$

[b] $\bar{X} =$



(3) In tossing a fair die once , then complete :

[a] Probability of appearing an odd number =

[b] Probability of appearing a number greater than 6 =

8 Giza Governorate

El-Haram Zone
Al-Mostakbal Modern Language School



Answer the following questions :

1 Choose the correct answer :

(1) $32.5 \div 100 = \dots\dots\dots$ (0.32 or 0.325 or 3250 or 325.2)

(2) $5.035 \approx \dots\dots\dots$ (to the nearest hundredth)
(5.03 or 500 or 5.04 or 5.3)

(3) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or U or X')

(4) $327.5 \times 100 = \dots\dots\dots$ (3276 or 32750 or 3.275 or 327500)

(5) $\emptyset \dots\dots\dots \{6, 8\}$ (\in or \notin or \subset or $\not\subset$)

(6) $\frac{1}{2} \square \frac{1}{3}$ (< or = or > or \leq)

(7) The altitudes of the obtuse-angled triangle intersect at one point
the triangle. (inside or on or outside)

(8) $0.4 \times 0.2 = \dots\dots\dots$ (8.00 or 0.08 or 0.8 or 0.042)

(9) $\frac{2}{5} \div \frac{1}{4} = \dots\dots\dots$ ($\frac{5}{8}$ or $\frac{6}{5}$ or $\frac{8}{5}$ or $\frac{2}{3}$)

(10) 6 { 7 , 6 , 8 } (\in or \notin or \subset or $\not\subset$)

(11) The length of the longest chord is 6 cm. , then the length of the radius
of the circle = cm. (6 or 12 or 4.5 or 3)

(12) The set { 1 , 3 , 5 , ... } is set.
(a finite or an infinite or an empty)

(13) $37440 \div 234 = \dots\dots\dots$ (16 or 106 or 160 or 1600)

(14) $\frac{4}{5} \times \frac{1}{3} = \dots\dots\dots$ ($\frac{1}{2}$ or $\frac{12}{5}$ or $\frac{4}{15}$ or $\frac{5}{8}$)

2 Complete the following :

(1) If $\{5, x\} = \{7, y\}$, then $x = \dots\dots\dots$ and $y = \dots\dots\dots$

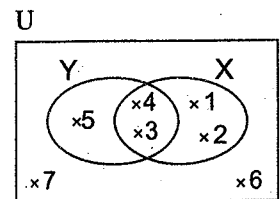
- (2) The probability of the impossible event is
- (3) The longest chord in the circle is called
- (4) $76.25 \div 10 = \dots \approx \dots$ (to the nearest hundredth)
- (5) The number of altitudes of any triangle is
- (6) $\frac{4}{12} \div \frac{5}{12} = \dots$
- (7) If $X = \{2, 3, 5\}$ and $Y = \{3\}$, then $X \cap Y = \dots$
- (8) $9282 \div 221 = \dots$

3 Answer the following :

- (1) Use the opposite Venn diagram to find :

[a] $X \cap Y = \dots$

[b] $\bar{Y} = \dots$



- (2) A box contains 3 white balls , 7 red balls and 5 yellow balls , one ball is chosen randomly. Find the probability of choosing :

[a] Red ball = [b] Green ball =

- (3) If the price of one metre of cloth is 6.45 pounds , what is the price of 2 metres ?

.....

- (4) Draw the circle M of radius length 4 cm.

, then draw the diameter \overline{AB} and the chord $\overline{AC} = 5$ cm.

9 Giza Governorate

Abo El-Nomros Educational Zone
Royal House Language Schools



Answer the following questions :

1 Choose the correct answer :

- (1) $3.75 \times 100 = \dots\dots\dots$ (0.375 or 37.5 or 375 or 0.0375)
- (2) $\frac{1}{2} \square 0.3$ (> or < or =)
- (3) If $\frac{1}{2} = \frac{x}{8}$, then $x = \dots\dots\dots$ (1 or 3 or 4 or 5)
- (4) $1\frac{2}{3} \times 1\frac{1}{5} = \dots\dots\dots$ ($2\frac{3}{8}$ or 2 or $1\frac{7}{18}$ or $\frac{13}{15}$)
- (5) $31.294 \approx 31.3$ (to the nearest $\dots\dots\dots$)
(tenth or hundredth or thousandth or unit)
- (6) The smallest prime number is $\dots\dots\dots$ (1 or 2 or 3 or 0)
- (7) $\frac{2}{5} \div \frac{7}{5} = \dots\dots\dots$ ($\frac{14}{25}$ or $\frac{2}{7}$ or $\frac{7}{2}$ or 2)
- (8) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset)
- (9) $\emptyset \dots\dots\dots \{2, 6, 1, 5\}$ (\in or \notin or \subset or $\not\subset$)
- (10) The set of odd numbers is $\dots\dots\dots$ set.
(a finite or an empty or an infinite or equal)
- (11) If $\{5, 7\} \subset \{x + 2, 5\}$, then $x = \dots\dots\dots$ (2 or 5 or 7 or 3)
- (12) $9 \dots\dots\dots \{19, 9\}$ (\in or \notin or \subset or $\not\subset$)
- (13) If the length of the longest chord in a circle is 13 cm. , then the length of any radius = $\dots\dots\dots$ cm. (26 or 6 or 6.5 or 11)
- (14) The altitudes of the acute-angled triangle intersect at one point $\dots\dots\dots$ the triangle. (inside or outside or at the vertex of right angle)

2 Complete :

- (1) $538.2 + 23.4 = \dots\dots\dots$
- (2) $2.3532 \approx \dots\dots\dots$ (approximate to the nearest $\frac{1}{1000}$)
- (3) $18.8 \div 1000 = \dots\dots\dots$
- (4) All the radii of the circle are $\dots\dots\dots$ in length.
- (5) The number of altitudes of right-angled triangle is $\dots\dots\dots$
- (6) $\{2, 3, 5\} \cap \{2, 3, 4\} = \dots\dots\dots$

(7) All the subsets of the set $\{2, 3\}$ are , ,
and

(8) When tossing a coin once , the probability of appearing a head = $\frac{\dots\dots\dots}{\dots\dots\dots}$

3 Answer the following :

(1) If the price of one metre of cloth is L.E. 45.5 What is the price of 3.5 metres ?
.....

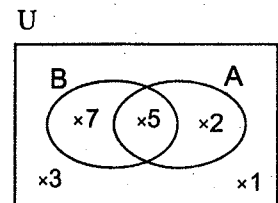
(2) By using the opposite Venn diagram , find :

[a] $A \cap B = \dots\dots\dots$

[b] $A \cup B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $\bar{A} = \dots\dots\dots$



(3) A bag contains 5 red balls , 8 black balls and 6 white balls , all of them are identical and equal in size. A ball is drawn randomly calculate the probability that :

[a] The drawn ball is black =

[b] The drawn ball isn't green =

(4) Draw $\triangle ABC$ in which $AB = BC = CA = 5$ cm.
 , then draw the altitude from A on \overline{BC}

10 Alexandria Governorate

Mid Educational Zone
Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

(1) $\{5, 2\} \dots\dots\dots \{52\}$

(\in or \notin or \subset or $\not\subset$)

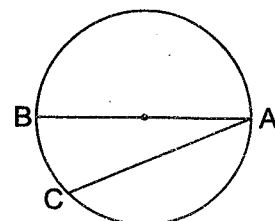
(2) $28.61 \times \dots = 28610$ (10 or 100 or 1000 or 10000)

(3) $\frac{1}{2} \div \frac{9}{4} = \dots$ (in the simplest form) ($\frac{9}{8}$ or $\frac{9}{2}$ or $\frac{2}{9}$ or 1)

(4) $\emptyset \dots \{0\}$ (\in or \notin or \subset or $\not\subset$)

(5) In the opposite figure :

\overline{AC} is called



(radius or diameter or centre or chord)

(6) $4812 \div 1000 \square 0.4812 \times 100$ ($<$ or $>$ or $=$ or \geq)

(7) $42.395 + 53.31 \approx \dots$ (to the nearest $\frac{1}{100}$)
(95.705 or 95.70 or 95.71 or 95.72)

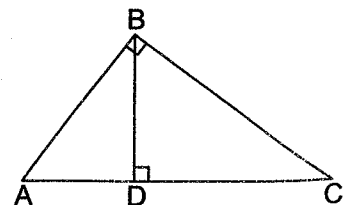
(8) If $5 \in \{x + 3, 7\}$, then $x = \dots$ (2 or 3 or 4 or 5)

(9) $25.25 \div 0.25 = \dots$ (10.1 or 11 or 1.01 or 101)

(10) In the opposite figure :

ABC is right-angled triangle at B

The point of intersection of its altitudes is



(A or B or C or D)

(11) 23 the set of prime numbers. (\in or \notin or \subset or $\not\subset$)

(12) $\frac{5}{9} \times \frac{9}{25} = \dots$ ($\frac{5}{3}$ or $\frac{3}{5}$ or $\frac{1}{5}$ or $\frac{45}{25}$)

(13) If $X \subset Y$, then $X \cap Y = \dots$ (X or Y or \emptyset or \bar{Y})

(14) 5675 grams $\approx \dots$ kilograms. (5 or 6 or 56 or 57)

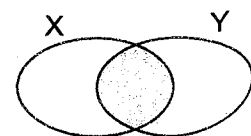
2 Complete :

(1) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots$

(2) $2.7 \times 0.4 = \dots$

(3) The probability of the sure (certain) event =

(4) The shaded part in the opposite figure represents



(5) The altitudes of the obtuse-angled triangle intersect in a point lies the triangle.

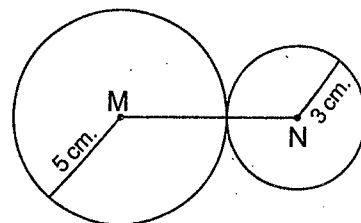
(6) $62.345 + 15.632 = \dots \approx \dots$ (to the nearest tenth)

(7) $\{3, 7, 2, 5\} - \{4, 2, 5, 6\} = \dots$

(8) In the opposite figure :

M and N are two circles

, then the length of $\overline{MN} = \dots$ cm.



3 Answer the following :

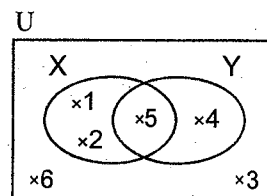
(1) An owner of packing food factory wanted to divide 5904 kg. of sugar equally in 492 packs. What is the weight of each pack ?

.....

(2) From the opposite Venn diagram , find the following :

[a] $X \cup Y = \dots$

[b] $\bar{X} = \dots$



(3) As throwing a fair die once , find the probability of appearing :

[a] An even prime number =

[b] A number divisible by 5 =

(4) Draw the triangle ABC

, where $BC = 6$ cm.

, $AB = AC = 5$ cm.

Draw $\overline{AD} \perp \overline{BC}$

Find the length of \overline{AD}

11 Alexandria Governorate

East Educational Zone
Supervision of Math



Answer the following questions :

1 Choose the correct answer from those between brackets :

(1) $736.592 \approx 736.59$ (to the nearest)

(unit or tenth or hundredth or thousandth)

- (2) 3.002 kilograms = grams.
(30.02 or 300.2 or 3002 or 0.3002)
- (3) If $\frac{2}{5} = \frac{a}{15}$, then $a =$ (5 or 6 or 8 or 10)
- (4) A circle, its radius length = 1 cm., then its diameter length = cm.
(1 or 2 or 3 or 4)
- (5) $\frac{3}{8}$ 0.5 (< or > or = or \geq)
- (6) $\{2\} \cup \{4\} =$ (24 or \emptyset or $\{2, 4\}$ or 6)
- (7) $1.7 \div 10 =$ (17 or 0.17 or 170 or 0.017)
- (8) The number of altitudes in any triangle =
(1 or 2 or 3 or 4)
- (9) $37.4289 - 14.081 \approx$ (to the nearest thousandth)
(23.350 or 23.348 or 23.248 or 23.347)
- (10) $\{52\}$ $\{5, 2\}$ (\in or \notin or \subset or $\not\subset$)
- (11) $5.45 \div 0.5 =$ (1.9 or 1.09 or 10.9 or 109)
- (12) $98.7 \times 100 =$ (987 or 9870 or 0.987 or 0.0987)
- (13) If $4 \in \{2, x, 5\}$, then $x =$ (2 or 4 or 5 or 6)
- (14) $\frac{2}{7} \div \frac{5}{7} =$ ($\frac{7}{7}$ or $\frac{10}{7}$ or $\frac{2}{5}$ or $\frac{5}{2}$)

2 Complete each of the following :

- (1) 354 metres = cm.
- (2) $\div 9 = 4.5$
- (3) $\{5, 6\} \cap \{4, 5\} =$
- (4) Tossing a regular coin once, the probability of landing a head =
- (5) The longest chord in a circle is called
- (6) $3.6 \times 1.3 = 1.3 \times$
- (7) $3.26 \times 17 = 3.26 \times (7 + \dots)$
- (8) A rectangle, its length is 4.1 cm. and its width is 0.5 cm.
then its area is cm^2

3 Answer the following :

- (1) Ahmed bought 12 cans of juice. The price of each can was L.E. 1.75
What is the total cost of juice ?
The total cost of juice =

(2) Arrange the following numbers in an ascending order :

$$\frac{3}{2} , \frac{3}{5} , \frac{3}{8} \text{ and } \frac{3}{4}$$

The order is : , and

(3) Draw a triangle ABC in which

AB = 4 cm. , BC = 5 cm. , AC = 6 cm.

(4) If the probability of a pupil succeed in an exam is $\frac{8}{10}$
 , find the probability of his fail.

The probability of his fail =

12 El-Kalyoubia Governorate

Directorate of Education Zone
 Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $3.75 \times 1000 = \dots\dots\dots$ (0.375 or 0.0375 or 3750 or 37.5)

(2) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)

(3) The number of altitudes in the right-angled triangle =
 (0 or 1 or 3 or 2)

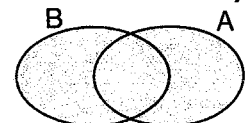
(4) $2\frac{1}{8} \div \frac{1}{8} = \dots\dots\dots$ (17 or 16 or 8 or 18)

(5) If $5 \in \{7, 9, x, 4\}$, then $x = \dots\dots\dots$ (4 or 5 or 6 or 8)

(6) 4.2 dm. =
 (0.42 cm. or 420 cm. or 42 cm. or 4200 cm.)

(7) 43 days \approx weeks. (4 or 5 or 6 or 7)

(8) The shaded part in Venn diagram represents



($A \cap B$ or $A - B$ or A^c or $A \cup B$)

(9) 3.36 km. = m. (3360 or 336 or 3630 or 33600)

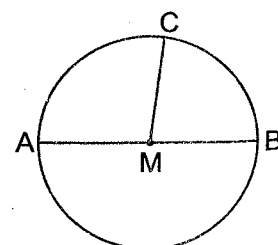
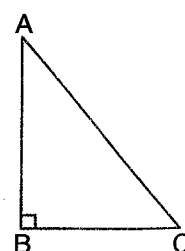
(10) If M is a circle whose diameter length is 8 cm. where A is a point and
 MA = 8 cm. , then the point A is located the circle.

(inside or outside or on or on the centre)

- (11) $\frac{3}{5}$ 0.06 ($<$ or $>$ or $=$ or \leq)
- (12) $9\frac{3}{25} = \dots\dots\dots$ (to the nearest tenth) (9 or 9.2 or 9.13 or 9.1)
- (13) $\{5, 4\} - \{7, 9, 8, 4\} = \dots\dots\dots$
 ($\{5\}$ or $\{7, 9, 4\}$ or $\{7, 8, 4\}$ or $\{9, 5, 8, 4\}$)
- (14) For any set A and its complement A^c , then $A \cup A^c = \dots\dots\dots$
 (A or A^c or U or $A \cap A^c$)

2 Complete the following :

- (1) $4\frac{1}{8} \times 2\frac{2}{3} = \dots\dots\dots$
- (2) In the opposite figure :
 The corresponding height
 to the base \overline{BC} is $\dots\dots\dots$
- (3) $\frac{3}{25} \div \dots\dots\dots = \frac{3}{25}$
- (4) The probability of the certain event = $\dots\dots\dots$
- (5) If $Y = \{2, 9, 6\} \cap \{1, 2, 4\}$, then 6 $\dots\dots\dots$ Y
- (6) In the opposite figure :
 \overline{AB} is called $\dots\dots\dots$
- (7) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$
- (8) $3978 \div \dots\dots\dots = 3.978$



3 Answer the following :

- (1) Look at the opposite Venn diagram, then find :

[a] $X \cap Y = \dots\dots\dots$

[b] $(X \cup Y)^c = \dots\dots\dots$

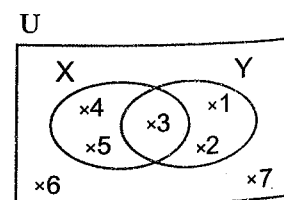
- (2) Find with steps :

[a] $21.6 \div 1.2 = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$

[b] $5\frac{1}{2} \div 3\frac{2}{3} = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$

- (3) A bag contains 5 white marbles, 7 black marbles and 3 red marbles, randomly one marble is selected, find :

- [a] The probability of selecting a black marble = $\dots\dots\dots$
- [b] The probability of selecting a white or red marble = $\dots\dots\dots$



- (4) Draw the triangle ABC where $AB = 4$ cm.
 , $BC = 6$ cm. and $CA = 8$ cm.
 Then draw a circle its centre is B and its
 radius length is 4 cm.

13 El-Sharkia Governorate

Menia El-Qamh Educational Zone
 Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

- (1) 4 { 5 , 4 , 32 } (\in or \notin or \subset or $\not\subset$)
 (2) $402.5 \times 100 =$ (40.25 or 4.025 or 40250 or 4025)
 (3) $\frac{1}{8} \approx$ (to the nearest hundredth)
 (0.125 or 0.12 or 0.13 or 0.1)
 (4) 5.63 km. = m. (5.63 or 5630 or 563 or 56.3)
 (5) \emptyset { 0 } (\in or \notin or \subset or $\not\subset$)
 (6) Every triangle has altitudes. (1 or 2 or 3 or 4)
 (7) If $X \subset Y$, then $X \cap Y =$ (U or X or Y or \emptyset)
 (8) The chord which passes through the centre of a circle is called
 (diameter or radius or centre or side)
 (9) When tossing a coin once the probability of appearing a tail =
 (1 or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{6}$)
 (10) $255 \div 25 = 2.55 \div$ (2.5 or 0.25 or 25 or 2500)
 (11) 40 days \approx weeks. (4 or 6 or 5 or 7)
 (12) $4 \frac{1}{8} \times 2 \frac{2}{3} =$ (1 or 10 or 11 or 111)
 (13) If $\{5 , 7\} = \{7 , x + 3\}$, then $x =$ (3 or 5 or 2 or 1)
 (14) $\frac{1}{2}$ \square $\frac{1}{3}$ (< or > or =)

2 Complete :

- (15) $\frac{2}{3} \times$ = 1
 (16) If $\frac{x}{8} = \frac{15}{24}$, then $x =$
 (17) The probability of the sure event =

- (18) A circle which its diameter length is 10 cm. , the length of its radius is cm.
- (19) $806.7 \div 100 = \dots\dots\dots$
- (20) If $5 \in \{3, 4, x\}$, then $x = \dots\dots\dots$
- (21) $\{4, 7\} \cap \{2, 7\} = \dots\dots\dots$
- (22) The longest chord in a circle is called

3 Answer the following :

- (23) If the price of piece of sweet is 2.25 pounds, what is the price of 25 pieces of the same kind ?
.....

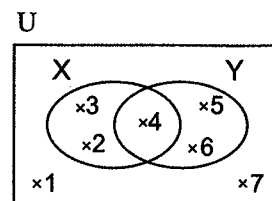
- (24) Using the opposite Venn diagram , find :

[a] $X \cap Y = \dots\dots\dots$

[b] $X \cup Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[d] $Y^c = \dots\dots\dots$



- (25) A box contains 5 blue balls , 2 red balls , 4 white balls.

Find the probability of getting :

[a] A white ball =

[b] A red ball =

- (26) Draw the triangle ABC where

AB = 3 cm. , BC = 4 cm. and AC = 5 cm.

14 El-Gharbia Governorate

El-Gharbia Educational Directorate
Math's Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $2586.3 \div 100 = \dots\dots\dots$

(25.863 or 258.63 or 2586.3 or 0.25863)

- (2) $2.25 \div 1.5 = \dots\dots\dots$ (105 or 1.5 or 15 or 0.15)
 (3) $X \cap \emptyset = \dots\dots\dots$ (zero or X or \emptyset or $\{0\}$)
 (4) The altitudes of the triangle intersect at
 (one point or two points or three points or four points)
 (5) $6.85 \times 1000 = \dots\dots\dots$ (68.50 or 685 or 6850 or 685000)
 (6) The probability of the impossible event =
 (0 or 1 or 0.5 or \emptyset)
 (7) If $\{4, x + 2\} = \{7, 4\}$, then $x = \dots\dots\dots$ (4 or 5 or 7 or 9)
 (8) The longest chord in the circle is called
 (radius or centre or side or diameter)
 (9) $255 \div 25 = 2.55 \div \dots\dots\dots$ (25 or 0.25 or 2.5 or 2500)
 (10) 5.6 tons = kg. (5600 or 650 or 2.5 or 2500)
 (11) 8 $\{7, 5, 8\}$ (\in or \notin or \subset or $\not\subset$)
 (12) \emptyset $\{0, 1, 3\}$ (\in or \notin or \subset or $\not\subset$)
 (13) 12 the set of days of the week. (\in or \notin or \subset or $\not\subset$)
 (14) 10 halves 20 fifths. (\leq or $>$ or $<$ or $=$)

2 Complete the following :

- (1) The diameter of a circle is a chord that crosses the
 (2) $\{1, 2\} \cup \{2, 3\} = \dots\dots\dots$
 (3) $\{5, 7\} - \{1, 2\} = \dots\dots\dots$
 (4) 4 tens \div 8 tenths =
 (5) If $X \cap Y = \emptyset$, then X and Y are
 (6) The probability of the sure event =
 (7) $5.766 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)
 (8) $66.7 \div 1000 = \dots\dots\dots$

3 Answer the following :

- (1) $7.4 \times 2.2 = \dots\dots\dots$
 (2) $12474 \div 231 = \dots\dots\dots$ (show the steps)

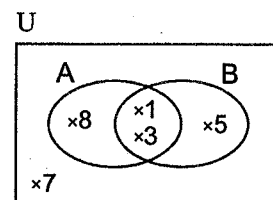
(3) Using the opposite Venn diagram , find :

[a] $A \cup B = \dots\dots\dots$

[b] $A \cap B = \dots\dots\dots$

[c] $B - A = \dots\dots\dots$

[d] $\bar{B} = \dots\dots\dots$



(4) Draw the triangle ABC in which

$AB = BC = CA = 6 \text{ cm.}$, then

draw $\overline{AD} \perp \overline{BC}$, then

find the length \overline{BD} and $m(\angle B)$

(5) A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in size , if a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] White ?

[b] Not white ?

[c] White or red ?

15 El-Dakahlia Governorate

Mathematics Supervision
Math Department



Answer the following questions :

1 Choose the correct answer :

(1) 0.23×1.9 0.019×23

(< or > or = or ≠)

(2) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$

(X or Y or U or \emptyset)

(3) $32.683 \approx \dots\dots\dots$ (to the nearest 0.01)

(23.68 or 32.69 or 32.7 or 32.68)

(4) If $\{a, 3, 5\} = \{b, 5, 2\}$, then $a + b = \dots\dots\dots$

(2 or 3 or 5 or 8)

(5) is used for drawing a circle.

(Set square or Ruler or Compasses or Protractor)

(6) is a chord passing through the centre of circle.

(Radius or Chord or Diameter or Centre)

(7) If A and B are disjoint sets , then $A - B = \dots\dots\dots$

(\emptyset or A or B or U)

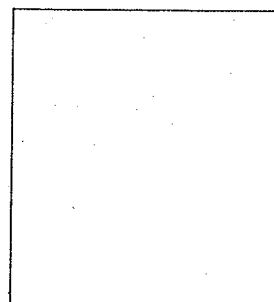
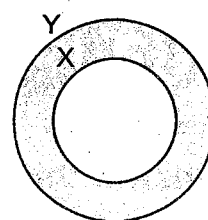
(8) 39 days $\approx \dots\dots\dots$ weeks.

(5 or 6 or 7 or 8)

- (9) $\{1, 2, 3\}$ $\{1, 2\}$ (\in or \notin or \subset or $\not\subset$)
- (10) The number of altitudes in the acute-angled triangle is
(0 or 1 or 2 or 3)
- (11) $1.92 \div \dots = 0.0192$ (10 or 100 or 1000 or 10000)
- (12) $\frac{2}{3} \times \dots = 1$ ($\frac{2}{3}$ or 1 or $\frac{3}{2}$ or 2.3)
- (13) $355 \div 18 = 3.55 \div \dots$ (1.8 or 0.18 or 18 or 1800)
- (14) $\hat{A} = \dots$ (U - A or A or B or \emptyset)

2 Complete :

- (1) The shaded part represents
- (2) 245 dm. = m.
- (3) If M is the centre of a circle
 \overline{AB} is a chord such that $M \in \overline{AB}$, then \overline{AB} is called
- (4) $5904 \div 492 = \dots$ (show steps in the rectangle).
- (5) The probability of the certain event =
- (6) $2\frac{2}{3} \div \frac{4}{3} = \dots$
- (7) $\{2, 4, 5\} \cap \{0, 2, 4\} = \dots$
- (8) Radius length of a circle = \times diameter length.



3 Answer the following :

- (1) If the length of a rectangle is 2.65 cm. and its width 1.5 cm.
 Calculate its area to the nearest tenth.
-

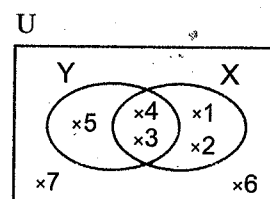
- (2) From the opposite figure , complete :

[a] $X \cup Y = \dots$

[b] $X \cap Y = \dots$

[c] $X - Y = \dots$

[d] $(X \cup Y)^c = \dots$



- (3) A card has been drawn randomly out of 10 cards numbered from 1 to 10
 , find the probability of getting :

[a] An odd number =

[b] A prime number =

[c] An even number between 4 and 6 =

[d] A factor of the number 9 =

- (26) Draw a circle M of radius length 2.5 cm.
and draw \overline{MA} as a radius , then complete
the equilateral triangle MAB , then
find the perimeter of the triangle.
The perimeter =

16 Ismailia Governorate

Directorate of Education
24th October G.L.S.



Answer the following questions :

1 Choose the correct answer :

(1) $736.592 \approx 736.59$ (to the nearest)

(unit *or* tenth *or* hundredth *or* thousandth)

(2) The number of altitudes of any triangle is (1 *or* 2 *or* 3 *or* 4)

(3) $X \cap \bar{X} = \dots\dots\dots$ (X *or* \bar{X} *or* U *or* \emptyset)

(4) $37.4289 - 14.081 \approx \dots\dots\dots$ (to the nearest $\frac{1}{1000}$)

(23.349 *or* 23.350 *or* 23.348 *or* 23.248)

(5) $5.748 \times 100 = \dots\dots\dots$ (57.48 *or* 0.5748 *or* 574.8 *or* 5748)

(6) $4 \dots\dots\dots \{2, 5\}$ (\in *or* \notin *or* \subset *or* $\not\subset$)

(7) $\frac{4}{7} \square \frac{5}{9}$ ($<$ *or* $=$ *or* $>$)

(8) 3.36 km. = m. (3.36 *or* 33.6 *or* 336 *or* 3360)

(9) $0.06 \times 0.3 = \dots\dots\dots$ (18 *or* 0.018 *or* 0.18 *or* 0.09)

(10) The chord which passes through the centre of a circle is called

(diameter *or* radius *or* centre *or* side)

(11) If $\{4, 8\} = \{1 + y, 4\}$, then $y = \dots\dots\dots$ (3 *or* 4 *or* 6 *or* 7)

(12) $2.125 \div 0.25 = \dots\dots\dots \div 25$

(212.5 *or* 21.25 *or* 2125 *or* 21250)

(13) The set of odd numbers is set.

(a finite **or** an empty **or** an infinite)

(14) If $X \subset Y$, then $X - Y = \dots\dots\dots$

(X **or** \emptyset **or** Y)

2 Complete :

(15) The probability of the impossible event =

(16) $\dots\dots\dots \times 2\frac{1}{2} = 1$

(17) $\emptyset \dots\dots\dots \{8, 10\}$

(18) $3\frac{1}{4} \div \frac{1}{4} = \dots\dots\dots$

(19) 5 $\dots\dots\dots \{7, 5, 3\}$

(20) To draw a circle with diameter length 8 cm. , we open the compasses cm.

(21) $5\frac{2}{3} \times \frac{3}{17} = \dots\dots\dots$

(22) If ABC is an equilateral triangle of side length 4 cm. , then its perimeter = cm.

3 Answer the following :

(23) Arrange in an ascending order :

$3\frac{1}{4}$, 3.3 , 3.125 and $3\frac{1}{2}$

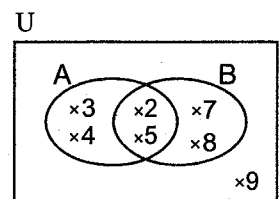
(24) From the opposite Venn diagram , find :

[a] $A \cup B = \dots\dots\dots$

[b] $A \cap B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $B^c = \dots\dots\dots$



(25) Draw ABC isoscles triangle in which

$AB = AC = 5$ cm. , $BC = 6$ cm.

and draw $\overline{AD} \perp \overline{BC}$, then find by measuring the length of \overline{AD}

(26) A box contains 5 white balls , 4 blue balls and 2 red balls , find the probability of getting :

[a] A blue ball =

[b] A red ball =

17 Suez Governorate

Maths Inspectorate



Answer the following questions :

1 Choose the correct answer :

- (1) 2.45 km. = m. (24.5 or 245 or 0.245 or 2450)
- (2) The longest chord in a circle is called a
(chord or diameter or radius or otherwise)
- (3) $\frac{1}{4}$ = (0.2 or 0.5 or 0.25 or 2.5)
- (4) $\frac{1}{3}$ $\frac{1}{2}$ (> or < or = or \geq)
- (5) 36 days \approx weeks (to the nearest week) (4 or 5 or 6 or 7)
- (6) $57.3 \times 100 =$ (0.573 or 0.0573 or 5730 or 5.73)
- (7) $2\frac{2}{3} \times 4\frac{1}{8} =$ (11 or 10 or 1.1 or 111)
- (8) 2 the set of digits of 1325 (\in or \notin or \subset or $\not\subset$)
- (9) If $8 \in \{3, 5, 4, x\}$, then $x =$ (2 or 3 or 4 or 5)
- (10) If $a \in X$, then a X (\in or \notin or \subset or $\not\subset$)
- (11) The smallest number from the following is
(0.123 or 0.111 or 0.12 or 1.023)
- (12) If $\{4, 5, 6\} = \{6, 4, x + 1\}$, then $x =$
(4 or 5 or 6 or 3)
- (13) When tossing a coin once, then the probability of appearing a head
= (0 or 1 or 2 or $\frac{1}{2}$)
- (14) $3.36 \div 0.6 =$ (5.6 or 56 or 0.56 or 6.5)

2 Complete :

- (1) If $\frac{3}{8} = \frac{a}{24}$, then $a =$
- (2) $\frac{3}{7} \times$ = 1
- (3) If $X \subset Y$, then $X \cup Y =$
- (4) The point of intersection of the three altitudes of obtuse-angled triangle lies the triangle.
- (5) The probability of the sure event is

- (6) A circle , its diameter length = 6 cm. , then its radius length = cm.
 (7) $7.52 + (14.73 - 11.53) \approx \dots\dots\dots$ (to the nearest $\frac{1}{10}$)
 (8) When tossing a fair die once , then the probability of appearing the number 7 is

3 Answer the following :

- (1) Arrange in a descending order :

$$\frac{1}{4} , 0.8 , 0.4 \text{ and } \frac{1}{2}$$

- (2) Draw the triangle ABC in which

$$AB = AC = 5 \text{ cm. , } BC = 8 \text{ cm.}$$

Draw the altitude \overline{AD} , find its length.

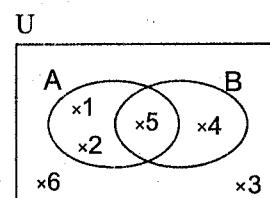
- (3) From the opposite Venn diagram , find :

[a] $A \cup B = \dots\dots\dots$

[b] $A \cap B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $B^c = \dots\dots\dots$



- (4) A box contains identical balls where 5 balls are white , 9 red balls and 6 black balls , if one ball is chosen randomly , what is the probability that the chosen ball is white ?

18 Damietta Governorate

Damietta Educational Directorate
Maths Inspection



Answer the following questions :

1 Choose the correct answer :

- (1) $7\frac{1}{8} \approx \dots\dots\dots$ (to the nearest tenth) (0.7 or 7.2 or 7.1 or 7)
 (2) If $\{6 , 10\} \subset \{10 , x - 4\}$, then $x = \dots\dots\dots$

(2 or 4 or 6 or 10)

- (3) The shaded part
is



($X \cap Y$ or $X - Y$ or $Y - X$ or $Y \cup X$)

- (4) 0.312×100 $312 \div 100$ ($>$ or $<$ or $=$ or \leq)
- (5) A square of side length = 3.5 cm. , then its area = cm^2
(14 or 122.5 or 12.25 or 7)
- (6) A circle M , the length of its diameter = 10 cm. , if MA = 8 cm.
 , then the point A lies the circle.
(inside or outside or on or otherwise)
- (7) 43 days \approx weeks. (to the nearest week)
(4 or 5 or 6 or 7)
- (8) $A - \bar{A} =$ (\bar{A} or A or \emptyset or U)
- (9) $736.592 \approx 736.59$ (to the nearest)
(unit or tenth or hundredth or thousandth)
- (10) If $X \subset Y$, then $X \cup Y =$ (X or Y or \emptyset or U)
- (11) The quotient of dividing $1.92 \div 0.6 =$
(3.5 or 3.2 or 3.1 or 3)
- (12) 7.3 m. = dm. (7.3 or 0.73 or 73 or 730)
- (13) The altitudes of the obtuse-angled triangle intersect at one point
located the triangle.
(inside or on or outside or otherwise)
- (14) 7 the set of days of the week. (\in or \notin or \subset or $\not\subset$)

2 Complete the following :

- (1) The number of subsets of the set $\{a, b\}$ is
- (2) If $\frac{x}{3} = \frac{20}{12}$, then $x =$
- (3) The number of altitudes in the equilateral triangle =
- (4) $2\frac{3}{4} \div 1\frac{3}{8} =$
- (5) As throwing a fair die once , then the probability of appearing
a number less than 3 is
- (6) $\{2, 4, 6\} \cap$ the set of all factors of the number 6 =
- (7) Any chord passing through the centre of a circle is called
- (8) The ascending order of $\frac{1}{4}$, $\frac{4}{5}$, 0.4 and $\frac{3}{4}$
is , and

3 Answer the following :

(1) A factory produces 235 pieces of cloth monthly. In how many months does it produce 26555 pieces of cloth ?
.....

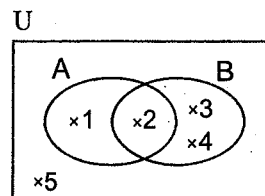
(2) From the opposite Venn diagram , find the following :

[a] $A \cap B = \dots\dots\dots$

[b] $A \cup B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $A^c = \dots\dots\dots$



(3) A card has been randomly drawn out of 10 cards numbered from 1 to 10
Find the probability of getting :

[a] A prime number =

[b] An even number less than 6 =

(4) Draw the triangle ABC in which

AB = 4 cm. , BC = 6 cm. and CA = 8 cm.

, then draw a circle whose centre is B

and its radius length is equal to 4 cm.

, then complete :

..... is called the radius of the circle.

19 Kafr El-Sheikh Governorate

Maths Supervision



Answer the following questions :

1 Complete :

(1) If $A \subset B$, then $A - B = \dots\dots\dots$

(2) $2\frac{3}{4} \div 1\frac{3}{8} = \dots\dots\dots$

(3) The longest chord in the circle is called

(4) $3.125 \times 4.3 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest 0.01)

(5) $\frac{2}{5} \times 15 = \dots\dots\dots$

(6) The number of subsets of the set $A = \{5, 2\}$ is

(7) The number of altitudes of the right - angled triangle is

(8) The probability of the impossible event =

2 Choose the correct answer :

- (9) $806.7 \div 100 = \dots\dots\dots$ (80.67 or 8.607 or 8.076 or 8.067)
- (10) $\{5\} \dots\dots\dots \{15, 55\}$ (\in or \notin or \subset or $\not\subset$)
- (11) The altitudes of any triangle intersect at $\dots\dots\dots$
(three points or two points or one point or zero point)
- (12) 40 days $\approx \dots\dots\dots$ weeks. (to the nearest week)
(8 or 7 or 6 or 5)
- (13) $2.7 \times 3.5 \square 0.27 \times 35$ (\neq or $>$ or $<$ or $=$)
- (14) If $\{3, 5\} - \{5, x\} = \emptyset$, then $x = \dots\dots\dots$ (3 or 5 or 8 or 2)
- (15) $\emptyset \dots\dots\dots \{0, 7\}$ (\in or \notin or \subset or $\not\subset$)
- (16) $255 \div 25 = 2.55 \div \dots\dots\dots$ (2.5 or 0.25 or 25 or 2500)
- (17) $\frac{3}{7} \times 1\frac{5}{9} = \dots\dots\dots$ ($\frac{3}{2}$ or $\frac{2}{3}$ or $1\frac{15}{63}$ or $\frac{3}{4}$)
- (18) $6630 \div 195 = \dots\dots\dots$ (304 or 340 or 430 or 34)
- (19) If $5 \in \{2, x+4, 7\}$, then $x = \dots\dots\dots$ (1 or 5 or 9 or 13)
- (20) $2 \square \frac{9}{4}$ ($>$ or $<$ or $=$ or \geq)
- (21) If $X - Y = X$, then $X \cap Y = \dots\dots\dots$ (X or Y or U or \emptyset)
- (22) A circle, its radius length = 3.5 cm., then its diameter length = $\dots\dots\dots$ cm.
(5 or 6.10 or 7 or 8)

3 Answer the following :

(23) A card is drawn from numbered cards from 1 to 10 randomly.

Find the probability that the drawn card is carrying :

[a] An odd number = $\dots\dots\dots$ [b] A prime number = $\dots\dots\dots$

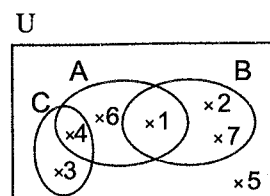
[c] A number less than 11 = $\dots\dots\dots$

[d] A whole number between 5 and 6 = $\dots\dots\dots$

(24) The opposite Venn diagram represents the sets A, B, C and U, complete :

[a] $A \cup C = \dots\dots\dots$ [b] $A \cap B = \dots\dots\dots$

[c] $B - C = \dots\dots\dots$ [d] $(A \cup B)^c = \dots\dots\dots$



(25) Arrange the following fractions in an ascending order :

$14\frac{1}{4}$, 15.025, 14.375 and $14\frac{1}{8}$

The order is : $\dots\dots\dots$, $\dots\dots\dots$, $\dots\dots\dots$ and $\dots\dots\dots$

- (26) Draw the triangle ABC in which
 $AB = 7 \text{ cm.}$, $BC = CA = 6 \text{ cm.}$
 , then draw the line segment from
 the point C that is perpendicular to \overline{AB}
 , and find its length.

20 El-Beheira Governorate

Damanhur Educational Directorate
 Al-Farabi Language School



Answer the following questions :

1 Choose the correct answer :

- (1) The triangle which the measures of its angles are 50° , 90° and 40° is called triangle.

(acute-angled **or** obtuse-angled **or** right-angled **or** otherwise)

- (2) $4\frac{1}{3} \times 2\frac{1}{13} = \dots\dots\dots$ (1 **or** 10 **or** 9 **or** 111)

- (3) If $\{7, 10\} = \{10, x + 4\}$, then $x = \dots\dots\dots$ (3 **or** 4 **or** 5 **or** 6)

- (4) $3.75 \times 1000 = \dots\dots\dots$ (0.375 **or** 0.0375 **or** 3750 **or** 37.5)

- (5) $\frac{1}{2} \square \frac{1}{3}$ (< **or** > **or** = **or** otherwise)

- (6) $9.989 \approx \dots\dots\dots$ (to the nearest 0.01) (9.9 **or** 10 **or** 9.99 **or** 9)

- (7) $55.241 \times 100 \square 522.41 \times 10$ (< **or** > **or** = **or** otherwise)

- (8) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 **or** 2 **or** 3 **or** $\frac{3}{2}$)

- (9) 43 days $\approx \dots\dots\dots$ weeks. (4 **or** 6 **or** 5 **or** 7)

- (10) Each chord passing through the centre of the circle is called a in the circle. (diameter **or** radius **or** side **or** otherwise)

- (11) The smallest number from the following is (0.111 **or** 0.12 **or** 0.123 **or** 1.023)

- (12) If $Y = \{2, 4, 6\} \cup \{1, 2, 3\}$, then 6 Y (\in **or** \notin **or** \subset **or** $\not\subset$)

- (13) A class has 40 pupils, 25 of them are boys and the remainder are girls , if a pupil is chosen randomly , then the probability that the chosen pupil is a girl = ($\frac{3}{8}$ **or** $\frac{5}{8}$ **or** $\frac{3}{5}$ **or** 1)

(14) The number of the altitudes in any triangle =

(1 or 2 or 3 or 4)

2 Complete each of the following :

(1) $\frac{4}{6} \div \frac{6}{12} = \dots\dots\dots$

(2) The probability of the certain event =

(3) If X and Y are two sets and $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(4) If $5 \in \{1, x\}$, then $x = \dots\dots\dots$

(5) $4.6788 \approx \dots\dots\dots$ (to the nearest thousandth)

(6) $2.25 \div 1.5 = \dots\dots\dots$

(7) $3.453 + 4.332 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)

(8) $0.532 \times 3.2 = \dots\dots\dots$

3 Answer the following :

(1) If the universal set $U = \{x : x \text{ is an odd number, } 1 \leq x \leq 15\}$, $X = \{1, 3\}$, $Y = \{1, 5, 9, 13\}$, draw a Venn diagram which expresses the sets U , X and Y , then find :

[a] $X \cap Y = \dots\dots\dots$

[b] $\bar{Y} = \dots\dots\dots$

(2) Draw $\triangle ABC$ in which $AB = 7$ cm.

, $BC = CA = 6$ cm. , then draw the line segment from point C that is perpendicular to \overline{AB} at D and find its length.

(3) A bag contains 5 white balls , 9 red balls and 6 black balls. If one ball is chosen randomly , what its the probability that the chosen ball is :

[a] White ?

[b] Not red ?

(4) A rectangle whose length is 4.1 cm. and width is 3.5 cm. , calculate its area.

21 El-Menia Governorate

El-Menia Educational Zone
Kafr El-Mansoura Formal Language School



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{5}{6} \div 1\frac{1}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(2) 43 days \approx $\dots\dots\dots$ weeks (to the nearest week) (4 or 6 or 5 or 7)

(3) If $\{2, 3, 4\} = \{3, 4, x\}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)

(4) $10 \times 4.72 \square 100 \times 0.472$ ($>$ or $<$ or $=$ or \neq)

(5) In any triangle, the number of its altitudes = $\dots\dots\dots$
(1 or 2 or 3 or 4)

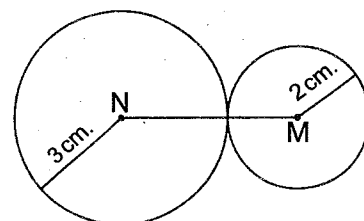
(6) $3\frac{1}{8} \approx \dots\dots\dots$ (to the nearest hundredth)
(3.10 or 3.12 or 3.13 or 3.11)

(7) $\emptyset \dots\dots\dots \{0\}$ ($=$ or \subset or $\not\subset$ or \in)

(8) 3.36 km. = $\dots\dots\dots$ m. (3.36 or 33.6 or 336 or 3360)

(9) In the opposite figure :

MN = $\dots\dots\dots$ cm.

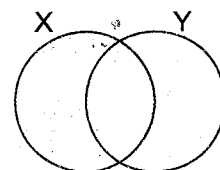


(2 or 3 or 6 or 5)

(10) If $X = \{3, 4, 5\}$, $Y = \{2, 3, 4\}$, then $5 \dots\dots\dots X - Y$
(\in or \notin or \subset or $\not\subset$)

(11) $48.2 \times 3.7 \square 4.82 \times 37$ ($>$ or $<$ or $=$ or \neq)

(12) The shaded part represents $\dots\dots\dots$



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(13) $12.3 \times \dots\dots\dots = 1230$ (10 or 100 or 1000 or 10000)

(14) $\{52\} \dots\dots\dots \{5, 2\}$ (\in or \notin or \subset or $\not\subset$)

2 Complete :

(1) $2.03 \times 0.07 = \dots\dots\dots$

(2) A circle of diameter length 4 cm. , then its radius length = $\dots\dots\dots$ cm.

(3) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail = $\dots\dots\dots$

(4) $2\frac{1}{4} \times \frac{\dots\dots\dots}{\dots\dots\dots} = 1$

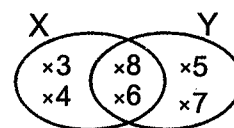
(5) The longest chord in a circle is called $\dots\dots\dots$

(6) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(7) If $\frac{b}{8} = \frac{15}{24}$, then b = $\dots\dots\dots$

(8) In the opposite figure :

$X \cap Y = \dots\dots\dots$



3 Answer the following :

(1) Arrange in a descending order :

$\frac{1}{2}$, 0.8 , $\frac{1}{4}$ and 0.3

The descending order is : $\dots\dots\dots$, $\dots\dots\dots$, $\dots\dots\dots$ and $\dots\dots\dots$

(2) Find the subsets of the set $\{8\}$

The subsets are $\dots\dots\dots$ and $\dots\dots\dots$

(3) From the table , find the probability that a pupil plays basketball :

Game	Football	Basketball	Handball
Number of pupils	50	40	10

The probability = $\dots\dots\dots$

(4) Draw the triangle ABC where :

AB = 4 cm. , BC = 6 cm. , CA = 8 cm.

, then draw a circle its centre B

and its radius length 4 cm.



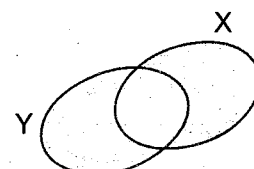
Answer the following questions :

1 Choose the correct answer :

(1) $9\frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(2) 0.312×100 $312 \div 100$ (> or < or = or \leq)

(3) The shaded part represents



($X \cup Y$ or $X \cap Y$ or $X - Y$ or $Y - X$)

(4) The number of altitudes in the right-angled triangle is

(1 or 2 or 3 or 4)

(5) If $\{7, 10\} \subset \{10, x + 4\}$, then $x = \dots\dots\dots$

(3 or 4 or 5 or 6)

(6) The reciprocal of $3\frac{1}{2}$ is

($\frac{7}{2}$ or $\frac{2}{7}$ or $3\frac{2}{1}$ or 8)

(7) $5.035 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$) (5 or 500 or 5.04 or 5.03)

(8) The set of odd numbers is set.

(a finite or an empty or an infinite)

(9) The number of subsets of the set $\{a, b\}$ is

(3 or 4 or 5 or 2)

(10) The length of the longest chord in the circle is 6 cm. , then the length of the radius of this circle = cm. (6 or 3 or 4.5 or 12)

(11) $\{7, 8\} \dots\dots\dots \{5, 7, 10\}$

(\in or \notin or \subset or $\not\subset$)

(12) $\frac{5}{6} \div 1\frac{1}{6} = \dots\dots\dots$

($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{8}$)

(13) If $\frac{a}{3} = \frac{5}{15}$, then $a = \dots\dots\dots$

(4 or 5 or 1 or 2)

(14) 12 $\{10, 2\}$

(\in or \notin or \subset or $\not\subset$)

2 Complete each of the following :

(1) 3.002 kg. = gm.

- (2) The probability of the sure event =
- (3) $\frac{3}{7} \times \dots = 1$
- (4) If $X \subset Y$, then $X \cap Y = \dots$
- (5) The area of a rectangle of 15.5 metres long and 5.5 metres wide is m^2
- (6) $3.75 \times 1000 = \dots$
- (7) The longest chord in a circle is called a
- (8) $6.3729 \approx \dots$ (to the nearest $\frac{1}{1000}$)

3 Answer the following :

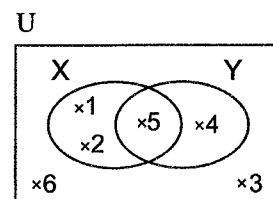
- (1) Arrange the following numbers in an ascending order :

$$\frac{1}{4}, 0.8, 0.4, \frac{1}{2} \text{ and } \frac{3}{4}$$

The ascending order is :,,, and

- (2) Look at the opposite Venn diagram, then complete :

- [a] $X \cup Y = \dots$
- [b] $X - Y = \dots$
- [c] $(X \cup Y)^c = \dots$
- [d] $X \cap Y = \dots$



- (3) Draw the triangle ABC where
AB = 6 cm. and BC = AC = 5 cm.

- (4) If the price of one metre of cloth is L.E. 39.8, what is the price of 8.5 metres to the nearest L.E. ?
.....

- (5) A box contains 3 white balls, 7 red balls and 5 yellow balls, all of equal size, one ball is chosen randomly, find the probability of getting :

- [a] A white ball = [b] Not yellow ball =

23 Qena Governorate

Qena Directorate Education
Experimental Language School



Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. = m. (3.36 or 33.6 or 336 or 3360)

(2) 9.16 = (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(3) 0.312×100 $312 \div 100$ (< or > or = or \leq)

(4) The smallest number from the following is

(0.111 or 0.12 or 0.123 or 1.023)

(5) $\frac{5}{6} \div 1\frac{1}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(6) A circle with a diameter length 6 cm. , then its radius length = cm.

(2 or 4 or 3 or 6)

(7) The probability of the impossible event =

(0 or 1 or 0.5 or 2)

(8) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$

(X or Y or U or \emptyset)

(9) As throwing a fair die once , then the probability of getting an odd number =

(1 or 0 or $\frac{1}{2}$ or $\frac{1}{3}$)

(10) The number of altitudes of a triangle =

(1 or 2 or 0.5 or 3)

2 Complete the following :

(1) The longest chord in the circle is called

(2) If $\{4, 6\} = \{1 + x, 4\}$, then $x = \dots\dots\dots$

(3) $2.5 \times 2.31 = \dots\dots\dots$

(4) $5\frac{1}{3} \times 6 = \dots\dots\dots$

(5) $\frac{2}{5} \div \frac{7}{5} = \dots\dots\dots$

3 Answer the following :

(1) If $U = \{1, 2, 3, 4, 5, 6, 9\}$, $X = \{2, 3, 5\}$ and $Y = \{2, 4, 6\}$

Represent each of X , Y and U using a Venn diagram , then find :

[a] $X \cup Y = \{ \dots \}$

[b] $X \cap Y = \{ \dots \}$

[c] $U - X = \{ \dots \}$

[d] $\dot{Y} = \{ \dots \}$

- (2) Find the area of the rectangle whose length is 4.1 cm. and its width is 3.5 cm.

The area of the rectangle =

- (3) Rearrange the following fractions descendingly :

$$\frac{1}{2}, 0.8, \frac{1}{4} \text{ and } 0.3$$

The order is : , and

- (4) Draw the equilateral triangle ABC

whose side length = 5 cm. , then

draw $\overline{AD} \perp \overline{BC}$, then find :

[a] The perimeter of triangle ABC

[b] $m(\angle CAD)$ by measuring.

- (5) A fair die is thrown once , what is the probability of each the following events ?

[a] Appearing an odd number =

[b] Appearing an even number =

[c] Appearing a number less than one =

24 Luxor Governorate

Luxor Educational Zone
El-Salaam private Language School



Answer the following questions :

1 Choose the correct answer :

- (1) A circle , its diameter length is 10 cm. , then its radius length = cm.

(3 or 5 or 6 or 9)

- (2) $0.737 \approx \dots\dots\dots$ (to the nearest hundredth)
 (0.72 or 0.74 or 0.738 or 0.8)
- (3) If $9 \in \{8, 3, x\}$, then $x = \dots\dots\dots$ (9 or 4 or 7 or 8)
- (4) If $\frac{2}{5} = \frac{a}{15}$, then $a = \dots\dots\dots$ (6 or 9 or 7 or 1)
- (5) If $X = \{1, 2, 3\}$, $Y = \{2, 3, 5, 6\}$, then $X \cap Y = \dots\dots\dots$
 ($\{1\}$ or $\{2, 3\}$ or $\{1, 2\}$ or $\{1, 2, 3\}$)
- (6) Any triangle has $\dots\dots\dots$ altitudes. (4 or 2 or 3 or 5)
- (7) $\{2, 5, 6\} - \{6, 5, 3\} = \dots\dots\dots$
 ($\{2\}$ or $\{2, 5, 6\}$ or $\{5\}$ or $\{5, 6\}$)
- (8) $3 \dots\dots\dots \{2, 3\}$ (\in or \notin or \subset or $\not\subset$)
- (9) $\frac{5}{8} \square \frac{3}{8}$ ($>$ or $<$ or $=$ or \leq)
- (10) $7.134 \times 100 = \dots\dots\dots$ (0.7134 or 713.4 or 7134 or 71340)
- (11) $1.2 \times 3 = \dots\dots\dots$ (4.8 or 0.36 or 0.48 or 3.6)
- (12) $\frac{2}{5} \div \frac{1}{4} = \dots\dots\dots$ ($\frac{8}{5}$ or $\frac{6}{5}$ or $\frac{2}{8}$ or $\frac{3}{8}$)
- (13) $\emptyset \dots\dots\dots \{3, 8\}$ (\in or \notin or \subset or $\not\subset$)
- (14) $75.3 \div 100 = \dots\dots\dots$ (735 or 7.53 or 0.753 or 75300)

2 Complete :

- (1) $3.6788 \approx \dots\dots\dots$ (to the nearest thousandth)
- (2) The longest chord in a circle is called $\dots\dots\dots$
- (3) If $\frac{4}{7} < \frac{x}{7} < \frac{6}{7}$, then $x = \dots\dots\dots$
- (4) $\{1, 3, 5\} \cup \{4, 2\} = \dots\dots\dots$
- (5) $31.2 \div 10 = \dots\dots\dots$
- (6) If $\{a, 7\} = \{7, 8\}$, then $a = \dots\dots\dots$
- (7) The altitudes of the acute-angled triangle intersect $\dots\dots\dots$ the triangle.
- (8) The probability of the certain event = $\dots\dots\dots$

3 Answer the following :

- (1) Find the result :
 $\frac{1}{5} \times \frac{3}{4} = \dots\dots\dots$

(2) A bag contains 2 white balls, 4 red balls and 5 yellow balls. All the balls are equal in size. If a ball is drawn randomly :

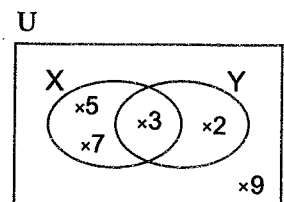
[a] The probability that the drawn ball is white =

[b] The probability that the drawn ball is yellow =

(3) From the opposite Venn diagram, find :

[a] $U = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$



(4) Draw equilateral triangle ABC

whose side length = 5 cm. and

draw an altitude from a vertex C

perpendicular to \overline{AB}

25 Aswan Governorate

Aswan Educational Directorate
Eng. M.M. yacoub Formal Language School



Answer the following questions :

1 Choose the correct answer :

(1) $X \cup \bar{X} = \dots\dots\dots$ (X or \emptyset or U)

(2) $13.376 \approx \dots\dots\dots$ (to the nearest hundredth)
(13.37 or 13.38 or 13.36)

(3) $3.75 \times 1000 = \dots\dots\dots$ (0.375 or 3750 or 37.5)

(4) $\frac{1}{2} \square \frac{1}{3}$ (> or < or =)

(5) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$ (3 or 4 or 5)

(6) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 or 2 or $\frac{3}{2}$)

(7) $\frac{7}{10} \div \frac{9}{10} = \dots\dots\dots$ ($\frac{7}{9}$ or $\frac{9}{10}$ or $\frac{7}{10}$)

(8) $7.2 \times 0.9 = \dots\dots\dots$ (6.48 or 648 or 0.648)

(9) $75.3 \div 100 = \dots\dots\dots$ (753 or 7.53 or 0.753)

(10) $\emptyset \dots\dots\dots \{1, 2, 3\}$ (\in or \notin or \subset or $\not\subset$)

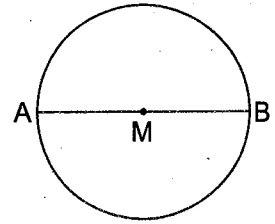
(11) If $\{2, 5\} = \{5, a\}$, then $a = \dots\dots\dots$ (1 or 2 or 3)

(12) If $5 \in \{1, 4 + x\}$, then $x = \dots\dots\dots$

(1 or 3 or 5)

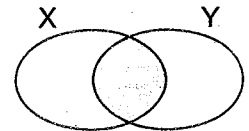
(13) In the opposite figure :

\overline{AB} is called a $\dots\dots\dots$



(radius or chord or diameter)

(14) The shaded part represents $\dots\dots\dots$



($X \cup Y$ or $X \cap Y$ or $X - Y$)

2 Complete :

(1) $48.4 \div 0.4 = \dots\dots\dots$

(2) $3978 \div 234 = \dots\dots\dots$

(3) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(4) If $X = \{2, 3\}$, $Y = \{3, 5\}$, then $X \cup Y = \dots\dots\dots$

(5) The longest chord in a circle is called $\dots\dots\dots$

(6) The right-angled triangle has $\dots\dots\dots$ altitudes.

(7) $38.76 + 25.38 = \dots\dots\dots$

(8) When tossing a coin once, then the probability of appearing a tail = $\dots\dots\dots$

3 Answer the following :

(1) An owner of packing food factories wanted to pack 2952 kilograms of sugar equally in 123 packs. What is the weight of each pack ?
 $\dots\dots\dots$

(2) If $X = \{1, 2, 3, 4\}$, $Y = \{2, 4, 6, 8\}$ Find : $X - Y$
 $\dots\dots\dots$

(3) A box contains identical balls where 5 white balls, 9 red balls and 6 black balls. What is the probability that the chosen ball is white ?
 $\dots\dots\dots$

(4) Draw the isosceles triangle ABC
in which $BC = 4$ cm. and
 $AB = AC = 6$ cm. , then draw $\overline{AD} \perp \overline{BC}$